# Service Manual

# ViewSonic VX750

## Model No. VLCDS27089-1W

## 17” Color TFT LCD Display

(VX750_SM_755 Rev. 1a Apr. 2004)

ViewSonic® 381 Brea Canyon Road, Walnut, California 91789 USA - (800) 888-8583

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# Revision History

| Revision | Date | Description Of Changes | Approval |
|---|---|---|---|
| 1a | 04/27/04 | Initial Release DCN-3772 | Angela Lu |
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# 1. Precautions and Safety Notices

1. Caution :

   No modification of any circuit should be attempted . Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guide line

2. Safety Check :

   Care should be taken while servicing this LCD display, due to the high voltage used in the inverter circuit. High voltage is exposed in such areas as the associated transformer circuits .

3. POWER SUPPLY REQUIREMENTS

   The external power converter for this display utilizes AC and DC cords. The AC cord is detachable , but the DC cord is permanently attached . Any attempt to replace another adapter could result in damage to the display .

4. LEAKAGE CURRENT HOT CHECK

   4-1 Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during this check.

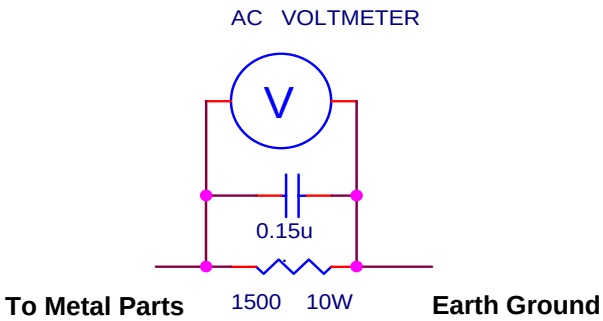
   4-2 Connect a 1500 ohm , 10 watt resistor , paralleled with a 0.15uF capacitor between each metallic part and a good earth ground

   4-3 Use an AC voltmeter with 1000 ohm / volt or more sensitivity and measure the AC voltage across the combination 1500 ohm resistor and 0.15uF capacitor.

   4-4 Move the resistor connection to each exposed metallic part and measure the voltage.

   4-5 Reverse the polarity of the AC plug in the AC outlet and repeat the above measurement.

   4-6 Voltage measured must not exceed 1.5 volt RMS, from any exposed metallic part to the ground. A leakage current tester may be used in the above hot check, in which case any circuit measured must not exceed 1.0 milliamp. In the case of a measurement exceeding the 1.0 milliamp value, a rework is required to eliminate the chance of a shock hazard .



## 2. Specification

| | |
|---|---|
| Mechanical : | |
| Dimension ( W x H x D ) mm | |
| Set a. with stand: | 502 x 405 x 195 mm |
| b. Without stand: | 502 x 340 x 63 mm |
| Base (L X W): | 275 x 195 mm |
| Packing : ( W x H x D ) mm: | 572 x 491 x 240 mm |
| Weight : Net / Gross ( Kg ): | 5.6 / 8.2 |
| Wall Mount (VESA): | 100 x 100 mm |
| LCD Panel type: | QDI / QD17EL07 |
| Max. resolution (HxV) : | 1280 x 1024 |
| Nominal picture size (HxV): | 338 mm x 270 mm |
| Display colors: | 16.2 M ( 6 bit + dithering ) |
| Dot pitch: | 0.264 mm |
| Response time: | 4 +12 / 16ms (Tr + Tf / typical) |
| Brightness (100% white) : | Typical : 270 cd/m² , Min. 220cd/m² |
| Contrast : | Typical : 450:1, Min. 300:1 |
| Viewing angle : | 75 / 75 /65 / 60 (L/R/T/B CR>=10) |
| Synchronization: | Fh = 31~82 KHz / Fv=50~85Hz |
| Presets: | 18 timing modes |
| OSD Language : | 9 languages |
| Color Temperature : | sRGB , 6500°K (default) / 9300°K |
| | 5400°K / User R,G,B |
| Plug & Play : | DDC1/2B interface |
| Scaler chip: | Mstar MST 8131 |
| Audio Input Connector: | 3.5 mm Stereo, PC2001 |
| Audio Amplifier : | 5W x 2 (chip :TPA3002) |
| AC Power range: | 90 V ~ 264 V, 50 Hz / 60 Hz |
| Power consumption: | < 50W green / < 1W amber |
| | (On / Off mode) |

## 3. Front Panel Function Control Description

### Adjusting the Screen Image

Use the buttons on the front control panel to display and adjust the OnView® controls which display on the screen. The OnView controls are explained at the top of the next page.

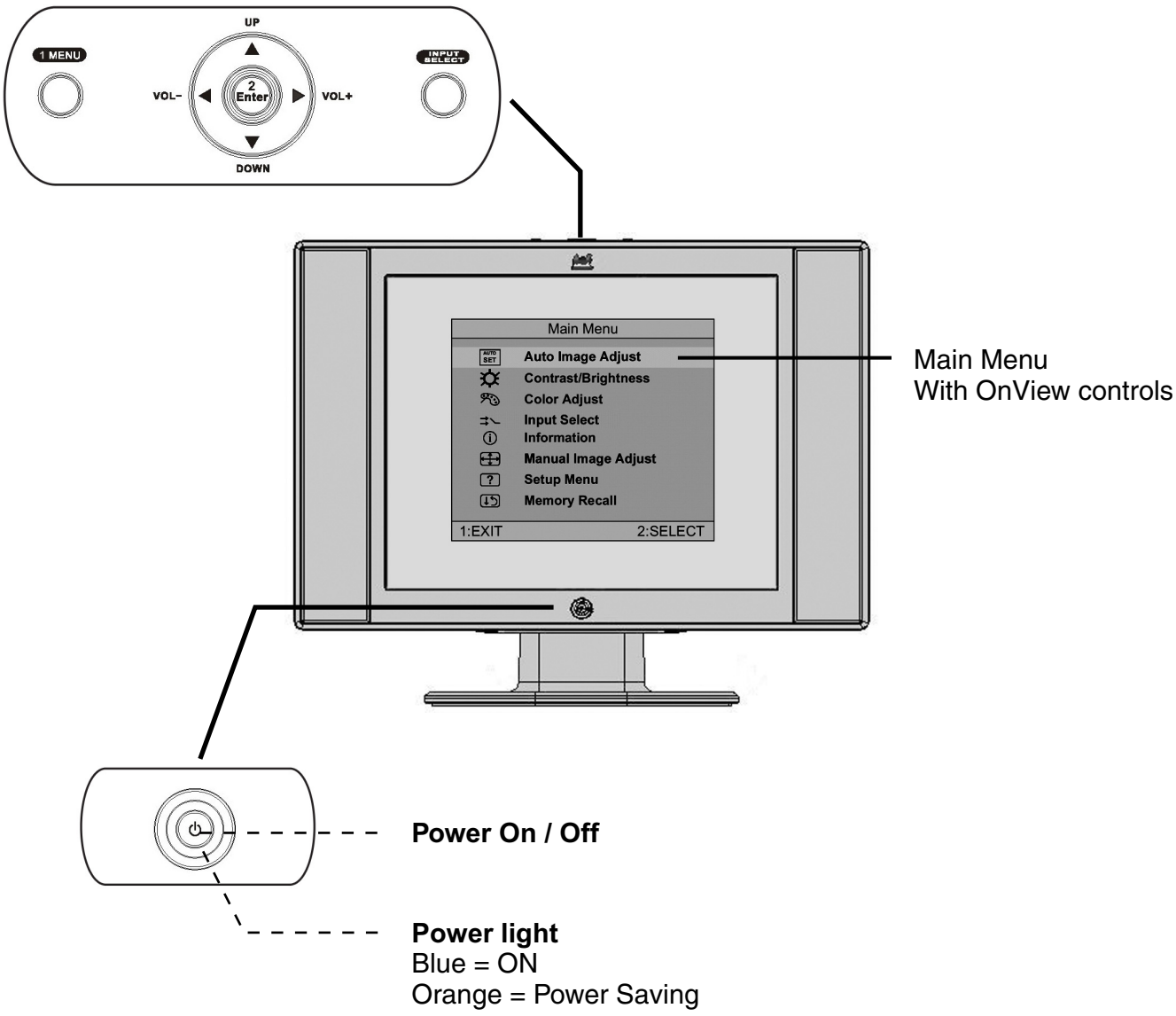
**1 MENU :** Displays the Main Menu or exits the control screen and saves adjustments.

**VOL- / VOL+ :** Decreases or increases volume.

**UP / DOWN :** Scrolls through menu options and adjusts the displayed control.
Also a shortcut to display the Contrast adjustment control screen.

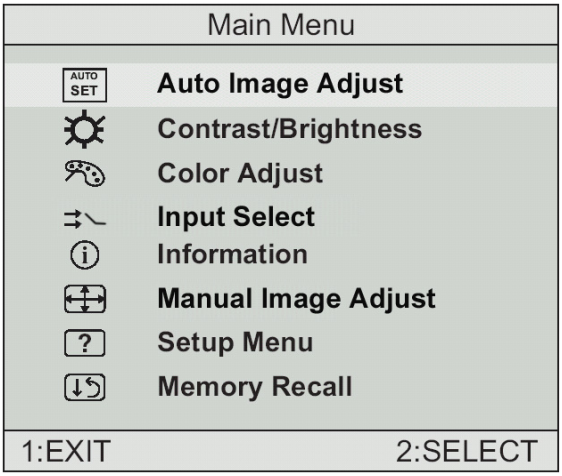
**2 Enter :** Displays the control screen for the highlighted control.
Also a shortcut to Auto Image Adjust.

**INPUT SELECT :** Also toggles between two controls on some screens.



**Do the following to adjust the screen image:**

**1** To display the Main Menu, press button [1].




**NOTE:** All OnView menus and adjustment screens disappear automatically after about 15 seconds. This time period is adjustable through the Setup menu and the OSD timeout control described on page 11.

**2** To highlight a control you want to adjust, press ▲ or ▼ to scroll up or down the Main Menu.

**3** To select the highlighted control, press button [2]. A control screen appears like the example shown below.

Contrast
1:EXIT
2: Brightness
The line at the bottom of the screen tells you what you can do next: Exit or Select the control that is highlighted.

**4** To adjust the control, press the up ▲ or down ▼ buttons.

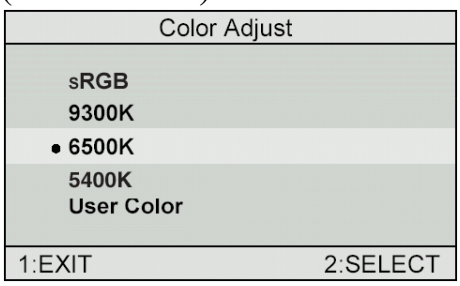
**5** To save the adjustments and exit the menu, press button [1] *twice*.

## The following tips may help you optimize your display:

- Adjust your computer's graphic card so that it outputs a video signal 1280 x 1024 @ 60 Hz to the LCD dislay. (Look for instructions on “changing the refresh rate” in your graphic card's user guide.)
- If necessary, make small adjustments using H. POSITION and V. POSITION until the screen image is completely visible. (The black border around the edge of the screen should barely touch the illuminated “active area” of the LCD dislay.)

### Main Menu Controls

Adjust the menu items shown below by using the up ▲ and down ▼ buttons.

| Control | Explanation |
|---|---|
| AUTO SET | **Auto Image Adjust** automatically sizes, centers, and fine tunes the video signal to eliminate waviness and distortion.<br>Press the [2] button to obtain a sharper image.<br><br>**NOTE:** Auto Adjust works with most common video cards. If this function does not work on your LCD dislay, then lower the video refresh rate to 60 Hz and set the resolution to its pre-set value. |
| | **Contrast** adjusts the difference between the image background (black level) and the foreground (white level). |
| | **Brightness** adjusts background black level of the screen image. |
| | **Color Adjust** provides several color options: preset color temperatures and User which allows you to adjust red (R), green (G), and blue (B). The factory setting for this product is 6500K (6500 Kelvin).<br>  <br><br>**sRGB —** sRGB is quickly becoming the industry standard for color management, with support being included in many of the latest applications. Enabling this setting allows the LCD display to more accurately display colors the way they were originally intended. Enabling the sRGB setting will cause the Contrast and Brightness adjustments to be disabled.<br><br>**9300K —** Adds blue to the screen image for cooler white (used in most office settings with fluorescent lighting).<br><br>**6500K —** Adds red to the screen image for warmer white and richer red. Default setting.<br><br>**5400K** — Adds green to the screen image for a darker color. |

| Control | Explanation |
|---|---|

**User —** Individual adjustments for red, green, and blue.

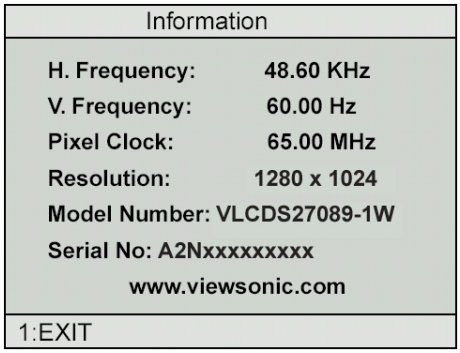
1 To select color (R, G or B) press button [2].
2 To adjust selected color, press ▲ or ▼.
3 When you are finished making all color adjustments, press button [1] *twice*.

**Important**: If you select RECALL from the Main Menu when the product is set to a Preset Timing Mode, colors return to the 6500K factory preset.

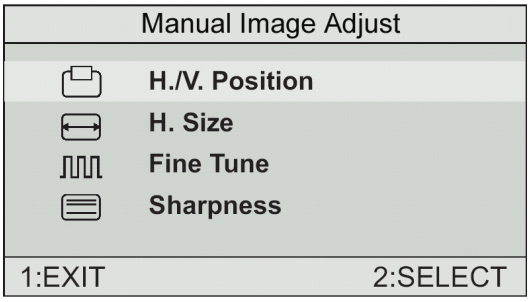
**Input Select** allows you to toggle between an analog and a digital signal.

**Information** displays the timing mode (video signal input) coming from the graphics card in your computer. See your graphic card's user guide for instructions on changing the resolution and refresh rate (vertical frequency).

VESA 1280 x 1024 @ 60 Hz (recommended) means that the resolution is 1280 x 1024 and the refresh rate is 60 Hertz.




**Manual Image Adjust**




The Image Adjust controls are explained below:

| Control | Explanation |
|---|---|

**H./V. Position** adjusts horizontal and vertical position of the screen image. You can toggle between Horizontal and Vertical by pressing button [2]. Horizontal moves the screen image to the left or to the right. Vertical moves the screen image up and down.

**H. Size** (Horizontal Size) adjusts the width of the screen image.

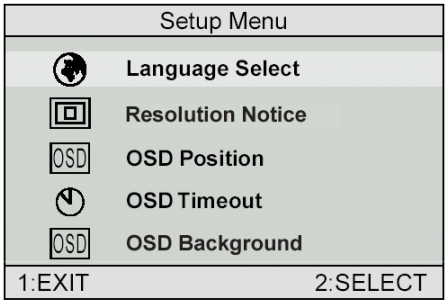
**NOTE:** Vertical size is automatic with your LCD dislay.

**Fine Tune** sharpens focus by aligning the illuminated text and/or graphic characters.

**NOTE:** Try the **Auto Adjust** (see page 9) before using the **Fine Tune** control.

**Sharpness** adjusts the clarity and focus of the screen image.

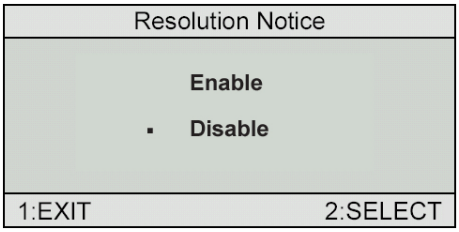
**Setup Menu** displays the menu shown below.




The Setup Menu controls are explained below.

**Language Select** allows you to choose the language used in the menus and control screens.

**Resolution Notice** advises the optimal resolution to use.



| Control | Explanation |
|---|---|
| | **OSD Position** allows you to move the on-screen display menus and control screens. |
| | **OSD Timeout** sets the length of time an on-screen display screen is displayed. For example, with a “15 second” setting, if a control is not pushed within 15 seconds, the display screen disappears. |
| | **OSD Background** allows you to turn the On-Screen display background on or off. This means that while making adjustments from the OSD control screens you can also view open software applications, or the Windows desktop. |
| | **Memory Recall** returns adjustments to the original factory settings if the display is operating in a factory Preset Timing Mode listed in this user guide. |

# 4. Circuit Description

## 1. Outline

1.1 Power On/Off, up arrow button, down arrow button, VOL- button, VOL+ button, 1MENU button, 2Enter button and INPUT SELECT button on the top bezel.

1.2 D-sub 15pin connector, DVI-D connector, audio line-in receptacle, audio line-out receptacle, earphone jack and DC-IN jack are located on the back side of the cabinet.

1.3 OSD menu includes the following function;

Auto Image Adjust (only active under analog input)

Contrast/Brightness

Audio Adjust

Color Adjust

Information

Manual Image Adjust

**Setup Menu**

**Memory Recall**

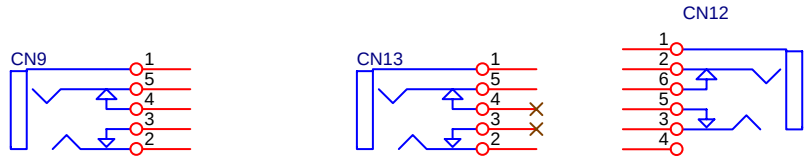
1.4 Contrast and Brightness can be directly controlled with UP / DOWN key.

1.5 Audio volume can be controlled with VOL- key and VOL+ key. When Audio Adjust menu is active, pushing 2Enter key can disable audio output.

## 2. Connectors

2.1 AC inlet : CEE22 type connector

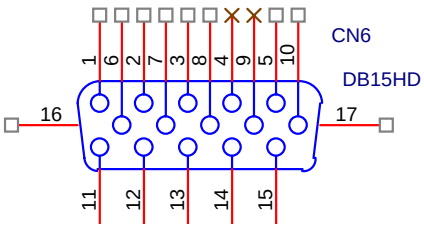
2.2 Audio : Line-in, Line-out and Earphone receptacles




Line-in receptacle Line-out receptacle Earphone receptacle

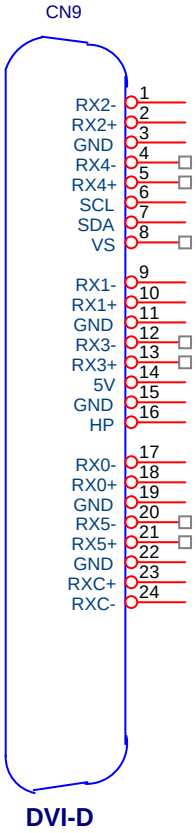
(Line-in receptacle is green, line-out receptacle is blue, earphone jack is black.)

2.3 Video signal connector for analog input: 15P Mini D-Sub




| PIN | MNEMONI | SIGNAL |
|---|---|---|
| 1 | RV | Red Video |
| 2 | GV | Green Video |
| 3 | BV | Blue Video |
| 4 | NC | None |
| 5 | GND | Ground (DDC return) |
| 6 | RG | Red GND |
| 7 | GG | Green GND |
| 8 | BG | Blue GND |
| 9 | +5V | +5V (for DDC) |
| 10 | SG | Sync GND |
| 11 | NC | None |
| 12 | SDA | DDC Data |
| 13 | HS | Horizontal Sync |
| 14 | VS | Vertical Sync |
| 15 | SCL | DDC Clock |

2.4 Video signal connector for digital input: 24pin DVI-D connector




| Pin No. | Signal Name | Description |
|---|---|---|
| 1 | RX2- | TMDS negative differential input, channel 2 |
| 2 | RX2+ | TMDS positive differential input, channel 2 |
| 3 | GND | Logic Ground |
| 4 | RX4- | Reserved. No connection |
| 5 | RX4+ | Reserved. No connection |
| 6 | SCL | DDC2B Clock |
| 7 | SDA | DDC2B Data |
| 8 | VS | Reserved. No connection |
| 9 | RX1- | TMDS negative differential input, channel 1 |
| 10 | RX1+ | TMDS positive differential input, channel 1 |
| 11 | GND | Logic Ground |
| 12 | RX3- | Reserved. No connection |
| 13 | RX3+ | Reserved. No connection |
| 14 | +5V | Power |
| 15 | GND | Logic Ground |
| 16 | HP | SENSE Pin, Pull High |
| 17 | RX0- | TMDS negative differential input, channel 0 |
| 18 | RX0+ | TMDS positive differential input, channel 0 |
| 19 | GND | Logic Ground |
| 20 | RX5- | Reserved. No connection |
| 21 | RX5+ | Reserved. No connection |
| 22 | GND | Logic Ground |
| 23 | RXC+ | TMDS positive differential input, reference clock |
| 24 | RXC- | TMDS negative differential input, reference clock |

## 3. ELECTRICAL SPECIFICATIONS

### 3.1 Standard conditions

| | |
|---|---|
| Display Area | **337.9 x 270.3 mm** |
| Video Signal | **0.7Vpp** |
| Contrast | **Max.** |
| Brightness | **Max.** |
| Ambient | **20 +/- 5 °C** |
| Input | **AC** |
| Warming up | **> 30 min** |
| Display | **1280 x 1024** |

### 3.2 POWER

3.2.1 Power supply

| | |
|---|---|
| Input voltage | 100~240Vac |
| Power frequency | 50~60Hz |
| Input current | <1.5Arms@90Vac |
| Inrush current | <0.8Arms@180Vac |
| | 50A(Max) at 120Vac(cold start) |
| Power consumption | 38W(typical);50Watts(Max) |
| Output voltage | @0-4.16A Load 12 Vdc+/-5% |

3.2.2 Power Management

| State | Power | Indicator |
|---|---|---|
| On | 45Watts | Blue |
| Standby | < 1Watts | Amber |
| Off | <1Watts | Off |

### 3.3 Acceptable timing

If the timing is within following specification, this LCD display can automatically function with a certain position.

Horizontal: Sync frequency: 30~82 kHz

Vertical: Sync frequency: 56~85Hz

### 3.4 Signal level and input impedance

3.4.1 Video Signal level: 0.7Vp-p Video signal.

3.4.2 Sync Signal level

H/V Separate: TTL level

3.4.3 Input impedance

Analog video input: 75 ohm

Digital video input: 100 ohm

Sync input: > 1 k ohm

Audio input: 10K ohm

**4. Signal Cable:** Signal cable with Mini D-Sub 15P connectors at both ends. Length: 1.8 meter.

**5. EDID DATA**

18.1 Analog EDID

TIME: 15:48:11

DATE: WED AUG 13, 2003

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VIEWSONIC CORPORATION

EDID VERSION # 1, REVISION # 3

DDCTEST FOR: VIEWSONIC VX750

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128 BYTES OF EDID CODE:

```
     0  1  2  3  4  5  6  7  8  9
   ---------------------------------------
  0 | 00 FF FF FF FF FF FF 00 5A 63
 10 | 14 D7 01 01 01 01 01 0D 01 03
 20 | 0E 22 1B 78 2E 0C 55 A2 56 4C
 30 | 96 25 1A 50 54 BF EF 80 81 80
 40 | 81 40 71 4F 01 01 01 01 01 01
 50 | 01 01 01 01 30 2A 00 98 51 00
 60 | 2A 40 30 70 13 00 52 0E 11 00
 70 | 00 1E 00 00 00 FF 00 41 32 4E
 80 | 30 33 30 31 30 30 30 30 31 0A
 90 | 00 00 00 FD 00 32 4B 1E 50 0E
100 | 00 0A 20 20 20 20 20 20 00 00
110 | 00 FC 00 56 58 37 35 30 0A 20
120 | 20 20 20 20 20 20 00 21
```

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(08-09) ID MANUFACTURER NAME = VSC

(11-10) PRODUCT ID CODE = D714

(12-15) LAST 5 DIGITS OF SERIAL NUMBER = NOT USED

(16) WEEK OF MANUFACTURE = 01

(17) YEAR OF MANUFACTURE = 2003

(10-17) COMPLETE SERIAL NUMBER = SEE DESCRIPTOR BLOCK

(18) EDID VERSION NUMBER = 1

(19) EDID REVISION NUMBER = 3

(20) VIDEO INPUT DEFINITION:

ANALOG SIGNAL

0.700, 0.300 (1.000 VP-P)

SEPARATE SYNCS, COMPOSITE SYNC, SYNC ON GREEN

(21) MAXIMUM HORIZONTAL IMAGE SIZE = 340 MM

(22) MAXIMUM VERTICAL IMAGE SIZE = 270 MM

(23) DISPLAY GAMMA = 2.20

(24) POWER MANAGEMENT AND SUPPORTED FEATURE(S):

ACTIVE OFF/VERY LOW POWER, STANDARD DEFAULT COLOR SPACE,

PREFERRED TIMING MODE

DISPLAY TYPE = R/G/B COLOR

(25-34) CHROMA INFO:

RED X - 0.633 GREEN X - 0.300 BLUE X - 0.146 WHITE X - 0.313

RED Y - 0.336 GREEN Y - 0.586 BLUE Y - 0.103 WHITE Y - 0.329

(35) ESTABLISHED TIMING I:

720 X 400 @ 70HZ (IBM,VGA)

640 X 480 @ 60HZ (IBM,VGA)

640 X 480 @ 67HZ (APPLE,MAC II)

640 X 480 @ 72HZ (VESA)

640 X 480 @ 75HZ (VESA)

800 X 600 @ 56HZ (VESA)

800 X 600 @ 60HZ (VESA)

(36) ESTABLISHED TIMING II:

800 X 600 @ 72HZ (VESA)

800 X 600 @ 75HZ (VESA)

832 X 624 @ 75HZ (APPLE,MAC II)

1024 X 768 @ 60HZ (VESA)

1024 X 768 @ 70HZ (VESA)

1024 X 768 @ 75HZ (VESA)

1280 X 1024 @ 75HZ (VESA)

(37) MANUFACTURER'S RESERVED TIMING:

1152 X 870 @ 75HZ (APPLE,MAC II)

(38-53) STANDARD TIMING IDENTIFICATION:

1280 X 1024 @60HZ

1280 X 960 @60HZ

1152 X 864 @75HZ

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

---

(54-71) DETAILED TIMING / DESCRIPTOR BLOCK 1:

1280X1024 PIXEL CLOCK: 108.00 MHZ

---

HORIZONTAL IMAGE SIZE: 338 MM VERTICAL IMAGE SIZE: 270 MM

REFRESHED MODE: NON-INTERLACED NORMAL DISPLAY - NO STEREO

HORIZONTAL:

| | |
|---|---|
| ACTIVE TIME: 1280 PIXELS | BLANKING TIME: 408 PIXELS |
| SYNC OFFSET: 48 PIXELS | SYNC PULSE WIDTH: 112 PIXELS |
| BORDER: 0 PIXELS | FREQUENCY: 63.98 KHZ |

VERTICAL:

| | |
|---|---|
| ACTIVE TIME: 1024 LINES | BLANKING TIME: 42 LINES |
| SYNC OFFSET: 1 LINES | SYNC PULSE WIDTH: 3 LINES |
| BORDER: 0 LINES | FREQUENCY: 60.02 HZ |

DIGITAL SEPARATE, HORIZONTAL POLARITY (+) VERTICAL POLARITY (+)

---

(72-89) DETAILED TIMING / DESCRIPTOR BLOCK 2:

MONITOR SERIAL NUMBER:

A2N030100001

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(90-107)DETAILED TIMING / DESCRIPTOR BLOCK 3:

MONITOR RANGE LIMITS:

MIN VERTICAL FREQ - 50 HZ

MAX VERTICAL FREQ - 75 HZ

MIN HORIZ. FREQ - 30 KHZ

MAX HORIZ. FREQ - 80 KHZ

PIXEL CLOCK - 140 MHZ

SECONDARY GTF - NOT SUPPORTED

(108-125) DETAILED TIMING / DESCRIPTOR BLOCK 4:

MONITOR NAME: VX750

(126) NO EXTENSION EDID BLOCK(S)

(127) CHECKSUM OK

18.2 Digital EDID

Time: 15:50:10

Date: Wed Aug 13, 2003

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VIEWSONIC CORPORATION

EDID Version # 1, Revision # 3

DDCTest For: ViewSonic VX750

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128 BYTES OF EDID CODE:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 00 | FF | FF | FF | FF | FF | FF | 00 | 5A | 63 |
| 10 | 14 | D7 | 01 | 01 | 01 | 01 | 01 | 0D | 01 | 03 |
| 20 | 80 | 22 | 1B | 78 | 2E | 0C | 55 | A2 | 56 | 4C |
| 30 | 96 | 25 | 1A | 50 | 54 | BF | EF | 80 | 81 | 80 |
| 40 | 81 | 40 | 71 | 4F | 31 | 0A | 01 | 01 | 01 | 01 |
| 50 | 01 | 01 | 01 | 01 | 30 | 2A | 00 | 98 | 51 | 00 |
| 60 | 2A | 40 | 30 | 70 | 13 | 00 | 52 | 0E | 11 | 00 |
| 70 | 00 | 1E | 00 | 00 | 00 | FF | 00 | 41 | 32 | 4E |
| 80 | 30 | 33 | 30 | 31 | 30 | 30 | 30 | 30 | 31 | 0A |
| 90 | 00 | 00 | 00 | FD | 00 | 32 | 4B | 1E | 50 | 0E |
| 100 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 |
| 110 | 00 | FC | 00 | 56 | 58 | 37 | 35 | 30 | 0A | 20 |
| 120 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 76 | | |

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(08-09) ID Manufacturer Name = VSC

(11-10) Product ID Code = D714

(12-15) Last 5 Digits of Serial Number = Not Used

(16) Week of Manufacture = 01

(17) Year of Manufacture = 2003

(10-17) Complete Serial Number = See Descriptor Block

(18) EDID Version Number = 1

(19) EDID Revision Number = 3

(20) VIDEO INPUT DEFINITION:

Digital Signal

Non - VESA DFP 1.x Compatible

(21) Maximum Horizontal Image Size = 340 mm

(22) Maximum Vertical Image Size = 270 mm

(23) Display Gamma = 2.20

(24) Power Management and Supported Feature(s):

Active Off/Very Low Power, Standard Default Color Space,

Preferred Timing Mode

Display Type = R/G/B Color

(25-34) CHROMA INFO:

Red X - 0.633 Green X - 0.300 Blue X - 0.146 White X - 0.313

Red Y - 0.336 Green Y - 0.586 Blue Y - 0.103 White Y - 0.329

(35) ESTABLISHED TIMING I:

720 X 400 @ 70Hz (IBM,VGA)

640 X 480 @ 60Hz (IBM,VGA)

640 X 480 @ 67Hz (Apple,Mac II)

640 X 480 @ 72Hz (VESA)

640 X 480 @ 75Hz (VESA)

800 X 600 @ 56Hz (VESA)

800 X 600 @ 60Hz (VESA)

(36) ESTABLISHED TIMING II:

800 X 600 @ 72Hz (VESA)

800 X 600 @ 75Hz (VESA)

832 X 624 @ 75Hz (Apple,Mac II)

1024 X 768 @ 60Hz (VESA)

1024 X 768 @ 70Hz (VESA)

1024 X 768 @ 75Hz (VESA)

1280 X 1024 @ 75Hz (VESA)

(37) Manufacturer's Reserved Timing:

1152 X 870 @ 75Hz (Apple,Mac II)

(38-53) Standard Timing Identification:

1280 X 1024 @60Hz

1280 X 960 @60Hz

1152 X 864 @75Hz

640 X 400 @70Hz

Not Used

Not Used

Not Used

Not Used

(54-71) Detailed Timing / Descriptor Block 1:

1280x1024 Pixel Clock: 108.00 MHz

Horizontal Image Size: 338 mm Vertical Image Size: 270 mm

Refreshed Mode: Non-Interlaced Normal Display - No Stereo

Horizontal:

Active Time: 1280 pixels Blanking Time: 408 pixels

Sync Offset: 48 pixels Sync Pulse Width: 112 pixels

Border: 0 pixels Frequency: 63.98 KHz

Vertical:

Active Time: 1024 lines Blanking Time: 42 lines

Sync Offset: 1 lines Sync Pulse Width: 3 lines

Border: 0 lines Frequency: 60.02 Hz

Digital Separate, Horizontal Polarity (+) Vertical Polarity (+)

(72-89) Detailed Timing / Descriptor Block 2:

Monitor Serial Number:

A2N030100001

(90-107) Detailed Timing / Descriptor Block 3:

Monitor Range Limits:

Min Vertical Freq - 50 Hz

Max Vertical Freq - 75 Hz

Min Horiz. Freq - 30 KHz

Max Horiz. Freq - 80 KHz

Pixel Clock - 140 MHz

Secondary GTF - Not Supported

(108-125) Detailed Timing / Descriptor Block 4:

Monitor Name: VX750

(126) No Extension EDID Block(s)

(127) CheckSum OK

## 6. THEORY OF OPERATION

This section describes the function of the LCD monitor per functional block.

This monitor includes MB board, inverter board, adapter and two button boards.

### 6.1 MB BOARD

The MB board is a two-layer, single-landed. 12V DC power from the power adapter enters the board through DC jack. Other connectors on the board are for inverter, audio and button boards .The VGA cable is a signal cable that contains video signal, sync signal and DDC signal from PC VGA adapter. This system board consists of 4 functional areas: flat panel controller, flash ROM, power regulator and Audio amplifier

#### 6.1.1 Flat panel controller… MST1831A (U3)

The heart of the system board is the scalar chip of MST1831A. The MST1831A is a high performance, dual input graphics processing IC for LCD monitors with resolutions up to SXGA. It provides all key IC functions required for LCD panel. On-chip functions include an 8-bit triple ADC, PLL, DVI receiver, high scaling engine, OSD controller and dual LVDS transmitter.

a) Clock Generation:

Crystal Input Clock (XIN and XOUT): This is the input pair to an internal crystal oscillator and corresponding logic. A 14.318 MHz crystal is recommended.

b) Hardware Reset (Pin 32):

Hardware Reset signal is provided by MCU (U6). It is active high.

c) Analog to Digital Converter:

The MST1831A chip has three ADC's (analog-to-digital converters), one for each color (red, green and blue) .The analog RGB and synchronous signals are connected to MST1831A as described below:

| Pin Name | Pin Number |
|---|---|
| Red + | 63 |
| Red - | 62 |
| Green + | 60 |
| Green - | 59 |
| Blue + | 58 |
| Blue - | 57 |
| H sync | 37 |
| V sync | 38 |

d) OSD: The MST1831A has a fully programmable, high-quality OSD controller. The on-chip static RAM stores the cell map and the cell definitions.

e) On chip TMDS receiver: The MST1831A integrated DVI receiver, which operates up to 135MHz and can directly connect to all DVI compliant transmitters. The TMDS signals are connected to MST1831A as described below:

| Pin Name | Pin NO. |
|---|---|
| R+ | 40 |
| R- | 41 |
| G+ | 43 |
| G- | 44 |
| B+ | 46 |
| B- | 47 |
| CK+ | 49 |
| CK- | 50 |

f) PWM controlling function (Pin 73~74): The MST1831A has two dedicated PWM outputs of PWM0 and PWM1 to control audio volume and back light brightness.

g) Serial interface ports (pin 70 and pin 71): This serial interface ports communicate with MCU and support up to 400Kbit per second transmit rate.

h) Panel interface (Pin 1, Pin 102, Pin 103, Pin 106, Pin 107, Pin 120~ Pin 125, Pin 108~113, and Pin 128) : The MST1831A driver interface is highly programmable. It supports dual bus / dual port for SXGA drivers.

**6.1.2** Power Regulator AIC1563 (U9), LT1117 (U10, U11): The AIC1563 is a monolithic control IC containing the primary functions required for DC-to-DC converters. The device consists of an internal temperature compensated reference, comparator, controlled duty cycle.

Oscillator with an active current sense circuit, desired output voltage is determined by the equation,

Volt = 1.25 *(1 + R121 / R122), in this case, the output voltage are 5 Volts

The AIC1117 is a low dropout positive adjustable regulator with minimum of 800mA output current capability. So it is well suited for 3.3 V and 2.5 V Regulator.

U10 as a 2.5V regulator, Desired output voltage is determined by the equation

Volt=1.25 x (1 + R124/R123)= 2.5

U11 as a 3.3V regulator, Desired output voltage is determined by the equation

Volt=1.255 x (1+ R126/R125)= 3.3

### 6.2 Audio Amplifier TPA3002D2 (U7)

The TPA3002D2 is a 9-W per channel efficient, Class-D audio amplifier for driving bridged-tied stereo speakers. TPA3002D2 can directly drive 8 ohms speaker, does not require output coupling capacitor, bootstrap capacitor, or LC filter. Audio line-in is fed into pin 2,6 of the TPA3002D2. The output gain is controlled by pin 11. It also provides line outputs for external headphone with a range of gain control from –56dB to 20dB.

### 6.3 Earphone Amplifier LM4881 (U8)

The LM4881 is a dual audio power amplifier for earphone application. It provides high quality output power (THD at 1 KHz at 75mW continuous average output power into 32ohm load) with a minimal amount of external components. It features thermal shutdown protection circuit and no bootstrap capacitors or snubber circuits are necessary.

### 6.4 Inverter Board

This is a specific inverter for VX750 monitor backlight which converts 12Vdc to drive four cold cathode fluorescence tubes. Electrical specification described as below.

| | | |
|---|---|---|
| INPUT | Rated Input Voltage | 12Vdc |
| | Input Voltage Range | 11.4~12.6Vdc |
| | Input Current | <1.96A |
| | Off state Input Power | <0.1W |
| | On / off control Voltage | 2~5.25 for on, 0~0.13 for off |
| OUTPUT | Rated Output Strike-on Voltage | 1500~2000Vrms |
| | Rated Output Voltage | 710Vrms at 6mA |
| | Rated Output Frequency | 40~50KHz |
| | Rated Output Current | 6~7mA |

### 6.5 Adapter

This is a general purpose AC / DC adapter which converts 90~240 Vac to a stabilized DC voltage 12 V with rated output current of 4.16A. Electrical specification described as below.

| | | |
|---|---|---|
| INPUT | Rated Input Voltage | 90~264Vac, 47~63Hz |
| | Operation Input Voltage | 100~240Vac, 50~60Hz |
| | Input Current | <1.5A |
| | Inrush Current | <50A @ 120Vac(Cold start) |
| | Standby Input Voltage | 12Vdc |
| OUTPUT | Output Voltage Regulation | +/-5% |
| | Output Ripple and Noise | 120 mVp-p |
| | Rated Output Current | <4.16A |
| | Turn-on Delay | <3 seconds |

# 5. Adjusting Procedure

**OSD Function Menu**

**A For Analog Input Mode**

**1. Main Menu**

Press “1(Menu)” Button (Menu Button) to enter Main Menu:

Press Up Button to the previous page or Down Button to the next page .

Press “1(Menu)” Button to exit Main Menu.

**(1) Auto Image Adjust Page:**

Press “Enter” Button to do auto image adjust function.

Press “1(Menu)(Menu)” Button to exit the page.

**(2) Contrast/Brightnes Page:**

Press “Enter” Button to enter Contrast Item.

Press “1(Menu)(Menu)” Button to exit the page.

**1) Contrast Item**

Press “VOL+” Button to make contrast high.

Press “VOL-“Button to make contrast low.

Press “Enter” Button to enter Brightness Item.

Press “1(Menu)(Menu)” Button to exit the item.

**2) Brightness Item**

Press “VOL+” Button to make brightness high.

Press “VOL-“ Button to make brightness low.

Press “Enter” Button to enter Contrast Item.

Press “1(Menu)(Menu)” Button to exit the item.

**(3) Input Select Page:**

Press”Enter” Button to change Digital mode.

**(4) Audio Menu Page:**

Press “Enter” Button to Enter Volume Page

Press “Enter” Button to Enter Mute Page

Press “1(Menu)(Menu)Button to exit the page.

**Volume Item**

Press “VOL+” Button to make Volume high.

Press “VOL-“Button to make Volume low.

Press “Enter” Button to enter Mute Item.

Press “1(Menu)(Menu)” Button to exit the item.

**Mute Item**

Press “Enter” Button to enter Volume Item.

Press “1(Menu)” Button to exit the item.

**(5) Color Adjust Page:**

Press “Enter” Button to enter Color Adjust page.

Press “1(Menu)” Button to exit the page.

Press Up Button to the previous item or Down Button to the next item.

**1) sRGB Item**

**2) 9300K Item**

**3) 6500K Item**

**4) 5400K Item**

Press “Enter” Button to select current Item.

Press “1(Menu)” Button to exit current item.

5) **User Color Item**

Press “Enter” Button to enter User Color item.

Press “1(Menu)” Button to exit User Color item.

**Red,Green,Blue Options:**

Press “Enter” Button to switch among the options.

Press “1(Menu)” Button to exit the options.

Press “Vol+” Button to make current option high.

Press “Vol-“ Button to make current option low.

**(6) Information Page:**

Press “Entr” Button to show the information.

Press “1(Menu)” Button to exit Information page.

**(7) Manual Image Adjust Page:**

Press “Enter” Button to enter Manual Image Adjust page.

Press “1(Menu)” Button to exit Manual Image Adjust page.

Press Up Button to the previous item or Down Button to the next item.

**1) H./V. Position Item**

Press “Enter” Button to enter H./V. Position item.

Press “1(Menu)” Button to exit H./V. Position item.

**a) Horizontal Position Option:**

Press “Enter” Button to enter the Vertical Position option.

Press “1(Menu)” Button to exit Horizontal Position option.

Press “Vol+” Button to make current option high.

Press “Vol-“Button to make current option low

**b) Vertical Position Option:**

Press “Enter” Button to enter the Horizontal Position option.

Press “1(Menu)” Button to exit Vertical Position option.

Press “Vol+” Button to make current option high.

Press “Vol-“ Button to make current option low

**2) Horizontal Size Item**

Press “Enter” Button to enter Horizontal Size item.

Press “1(Menu)” Button to exit Horizontal Size item.

Press “Vol+” Button to make current item high.

Press “Vol-“Button to make current item low.

**3) Fine tune Item**

Press “Enter” Button to enter Fine tune item.

Press “1(Menu)” Button to exit Fine tune item.

Press “Vol+” Button to make current item high.

Press “Vol-“Button to make current item low.

**4) Sharpness Item**

Press “Enter” Button to enter Sharpness item.

Press “1(Menu)” Button to exit Sharpness item.

Press “Vol+” Button to make current item high.

Press “Vol-“ Button to make current item low.

**(8) Setup Menu Page:**

Press “Enter” Button to enter Setup Menu page.

Press “1(Menu)” Button to exit Setup Menu page.

Press Up Button to the previous item or Down Button to the next item.

**1) Language Select Item**

Press “Enter” Button to enter Language Select item.

Press “1(Menu)” Button to exit Language Select item.

Press Up Button to the previous option or Down Button to the next option.

English,French……..Option

Press “Enter” Button to select the language.

Press “1(Menu)” Button to exit the option.

**2) Resolution Notice Item**

Press “Enter” Button to enter Resolution Notice item

Press “1(Menu)” Button to exit Resolution Notice item.

Enable,Disable Option

Press “Enter” Button to select the option.

Press “1(Menu)” Button to exit the option

Press Up Button to the previous option or Down Button to the next option.

**3) OSD Position Item**

Press “Enter” Button to enter OSD Position item.

Press “1(Menu)” Button to exit OSD Position item.

**a) Horizontal Position Option**

Press “Enter” Button to enter the Vertical Position option.

Press “1(Menu)” Button to exit Horizontal Position option.

Press “Vol+” Button to make current option high.

Press “Vol-“ Button to make current option low

**b) Vertical Position Option:**

Press “Enter” Button to enter the Horizontal Position option.

Press “1(Menu)” Button to exit Vertical Position option.

Press “Vol+” Button to make current option high.

Press “Vol-“ Button to make current option low

**4) OSD Time Out Item**

Press “Enter” Button to enter OSD Time Out item.

Press “Vol+“Button to make OSD time out long.

Press “Vol-“Button to make OSD time out short.

**5) OSD Background Item**

Press “Enter” Button to enter OSD Background item.

Press “1(Menu)” Button to exit OSD Background item.

Enable,Disable Option

Press “Enter” Button to select the option.

Press “1(Menu)” Button to exit the option.

Press Up Button to the previous option or Down Button to the next option.

**(9) Memory Recall Page**

Press “Enter” Button to do the memory recall function.

Press “1(Menu)” Button to exit the page.

**2. Other Menu:**

**(1) Contrast Dialog**

Press Down or Up Button to enter the Contrast Dialog.

Press “1(Menu)” Button to exit the Contrast Dialog.

Press “Enter” Button to enter the Brightness Dialog.

Press “Vol-“Button to make contrast high.

Press “Vol+“Button to make contrast low.

**(2) Brightness Dialog**

Press Down or Up Button to enter the Brightness Dialog.

Press “1(Menu)” Button to exit the Brightness Dialog.

Press “Enter” Button to enter the Contrast Dialog.

Press “Vol+“Button to make brightness high.

Press “Vol-“Button to make brightness low.

**(3) Volume Dialog**

Press “Vol+”or “Vol-“Button to enter the Volume Dialog .

(if it Mute is enable currently)

Press”Enter” Button to switch Mute Dialog

Press “1(Menu)” Button to exit the Volume Dialog.

Press “Vol-“Button to make volume low.

Press “Vol+”Button to make volume high.

**(4) Mute Dialog**

Press “Vol+”or “Vol-“Button to enter the Mute Dialog

(if it Mute is disable currently).

Press”Enter” Button to switch volume Dialog

**(5) Auto Image Adjust Dialog**

Press “Enter” Button to do the auto image adjust function.

**(6) Analog/DIGITAL Dialog**

Press “Input select “ Button to switch to DIGITAL mode

**B. For Digital Input Mode**

**Main Menu**

Press “1(Menu)” Button (Menu Button) to enter Main Menu:

Press Up Button to the previous page or Down Button to the next page .

Press “1(Menu)” Button to exit Main Menu.

**(1) Contrast/Brightnes Page:**

Press “Enter” Button to enter Contrast Item.

Press “1(Menu)(Menu)” Button to exit the page.

**1) Contrast Item**

Press “VOL+” Button to make contrast high.

Press “VOL-“Button to make contrast low.

Press “Enter” Button to enter Brightness Item.

Press “1(Menu)(Menu)” Button to exit the item.

**2) Brightness Item**

Press “VOL+” Button to make brightness high.

Press “VOL-“ Button to make brightness low.

Press “Enter” Button to enter Contrast Item.

Press “1(Menu)(Menu)” Button to exit the item.

**(2) Input Select Page:**

Press”Enter” Button to change Analog mode.

**(3) Audio Menu Page:**

Press “Enter” Button to Enter Volume Page

Press “Enter” Button to Enter Mute Page

Press “1(Menu)(Menu)Button to exit the page.

**Volume Item**

Press “VOL+” Button to make Volume high.

Press “VOL-“Button to make Volume low.

Press “Enter” Button to enter Mute Item.

Press “1(Menu)(Menu)” Button to exit the item.

Mute Item

Press “Enter” Button to enter Volume Item.

Press “1(Menu)” Button to exit the item.

**(4) Color Adjust Page:**

Press “Enter” Button to enter Color Adjust page.

Press Up Button to the previous item or Down Button to the next item.

**1)sRGB Item**

**2)9300K Item**

**3)6500K Item**

**4)5400K Item**

Press “Enter” Button to select current Item.

Press “1(Menu)” Button to exit current item.

**5)User Color Item**

Press “Enter” Button to enter User Color item.

Press “1(Menu)” Button to exit User Color item.

**Red,Green,Blue Options:**

Press “Enter” Button to switch among the options.

Press “1(Menu)” Button to exit the options.

Press “Vol+” Button to make current option high.

Press “Vol-“ Button to make current option low.

**(5) Information Page:**

Press “Entr” Button to show the information.

Press “1(Menu)” Button to exit Information page.

**(6) Manual Image Adjust Page:**

Press “Enter” Button to enter Manual Image Adjust page.

**Sharpness Item**

Press “Enter” Button to enter Sharpness item.

Press “1(Menu)” Button to exit Sharpness item.

Press “Vol+” Button to make current item high.

Press “Vol-“ Button to make current item low.

**(7) Setup Menu Page:**

Press “Enter” Button to enter Setup Menu page.

Press “1(Menu)” Button to exit Setup Menu page.

Press Up Button to the previous item or Down Button to the next item.

**1) Language Select Item**

Press “Enter” Button to enter Language Select item.

Press “1(Menu)” Button to exit Language Select item.

Press Up Button to the previous option or Down Button to the next option.

English,French……..Option

Press “Enter” Button to select the language.

Press “1(Menu)” Button to exit the option.

**2) Resolution Notice Item**

**3)** Press “1(Menu)” Button to exit Resolution Notice item.

Enable,Disable Option

Press “Enter” Button to select the option.

Press “1(Menu)” Button to exit the option

Press Up Button to the previous option or Down Button to the next option.

**3) OSD Position Item**

Press “Enter” Button to enter OSD Position item.

Press “1(Menu)” Button to exit OSD Position item.

**a) Horizontal Position Option**

Press “Enter” Button to enter the Vertical Position option.

Press “1(Menu)” Button to exit Horizontal Position option.

Press “Vol+” Button to make current option high.

Press “Vol-“ Button to make current option low

**b) Vertical Position Option:**

Press “Enter” Button to enter the Horizontal Position option.

Press “1(Menu)” Button to exit Vertical Position option.

Press “Vol-“ Button to make current option low

**4) OSD Time Out Item**

Press “Enter” Button to enter OSD Time Out item.

Press “1(Menu)” Button to exit OSD Time Out item.

Press “Vol+“Button to make OSD time out long.

Press “Vol-“Button to make OSD time out short.

**5) OSD Background Item**

Press “Enter” Button to enter OSD Background item.

Press “1(Menu)” Button to exit OSD Background item.

Enable,Disable Option

Press “Enter” Button to select the option.

Press “1(Menu)” Button to exit the option.

Press Up Button to the previous option or Down Button to the next option.

**(8) Memory Recall Page**

Press “Enter” Button to do the memory recall function.

Press “1(Menu)” Button to exit the page.

**3. Other Menu:**

**(1) Contrast Dialog**

Press Down or Up Button to enter the Contrast Dialog.

Press “1(Menu)” Button to exit the Contrast Dialog.

Press “Enter” Button to enter the Brightness Dialog.

Press “Vol-“Button to make contrast high.

Press “Vol+“Button to make contrast low.

**(2) Brightness Dialog**

Press Down or Up Button to enter the Brightness Dialog.

Press “1(Menu)” Button to exit the Brightness Dialog.

Press “Enter” Button to enter the Contrast Dialog.

Press “Vol+“Button to make brightness high.

Press “Vol-“Button to make brightness low.

**(3) Volume Dialog**

Press “Vol+”or “Vol-“Button to enter the Volume Dialog .

Press”Enter” Button to switch Mute Dialog

Press “1(Menu)” Button to exit the Volume Dialog.

Press “Vol-“Button to make volume low.

Press “Vol+”Button to make volume high.

**(4) Mute Dialog**

Press “Vol+”or “Vol-“Button to enter the Mute Dialog

Press”Enter” Button to switch volume Dialog

**(5) Auto Image Adjust Dialog**

Press “Enter” Button to do the auto image adjust function.

**(6) Analog/DIGITAL Dialog**

Press “Input select “ Button to switch to Analog mode

**C. Other information**

**Conditions for showing “No signal” or “out of Range”:**

If there is no signal , it will show “No signal” information in center of the Screen

If the V-Sync more than 85Hz or its resolution more than SXGA it will show

“Out of Range” information in Center of the Screen

**How to enter factory mode and Burn-in Mode:**

if you Press Enter then Power on it will enter Factory Mode

then it will add one Menu page named Factory Menu

Press “Enter “ Button Enter Factory Menu item

Then Press”Enter” Button Enter Burn Mode

# LM5ISP Update Procedure

## 1 Firmware Update Procedure

### 1.1 Equipment Needed

1.1.1 VX750 Series monitor.

1.1.2 Fixture for Firmware update.

1.1.3 VGA Cable.

1.1.4 Computer (NB or PC).

1.1.5 Firmware update program (LM5ISP.exe).

CN2 CN1

Fixture for F/W & DDC Update

### 1.2 Setup Procedure

1.2.1 Connect CN1 of Fixture to Printer Port of NB.

1.2.2 Connect CN2 of Fixture to VGA Cable.

1.2.3 Connect VGA Cable to Analog Input of monitor.

1.2.4 Turn on the Monitor power.

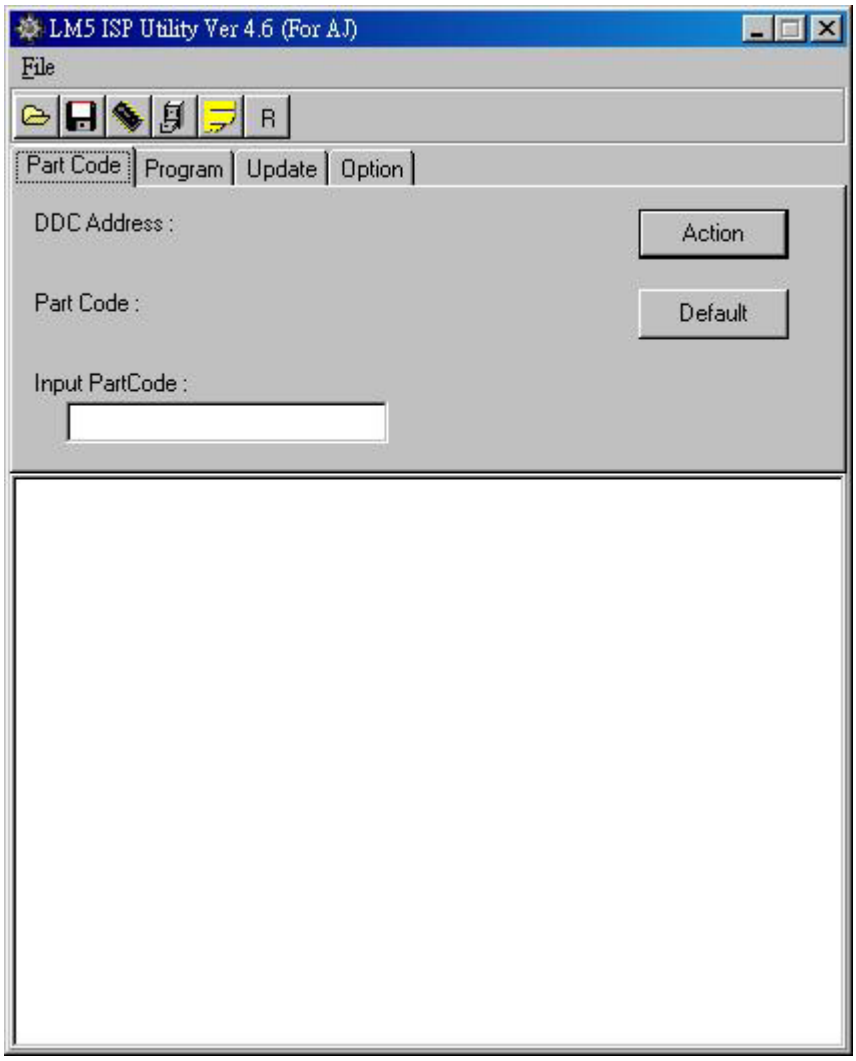
1.2.5 Copy the “LM5ISP.exe” to NB.

Cable Fixture NB

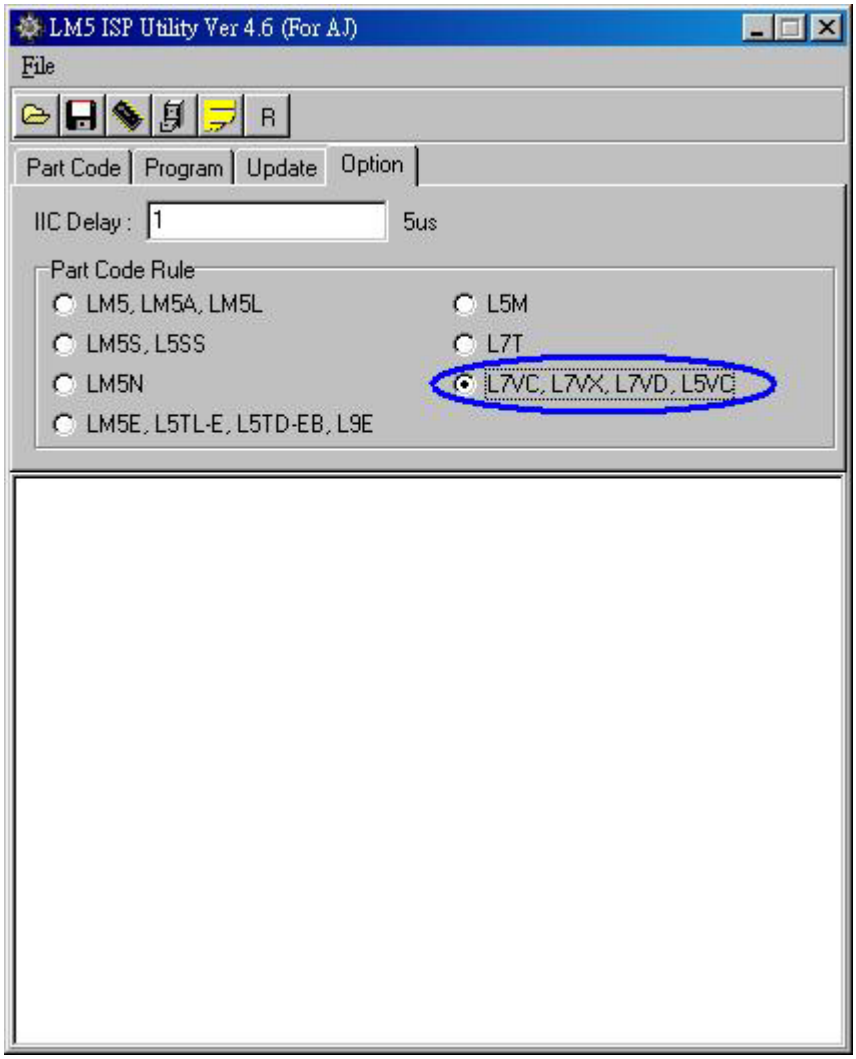
F/W or DDC Update

## 1.3 LM5ISP Firmware Update

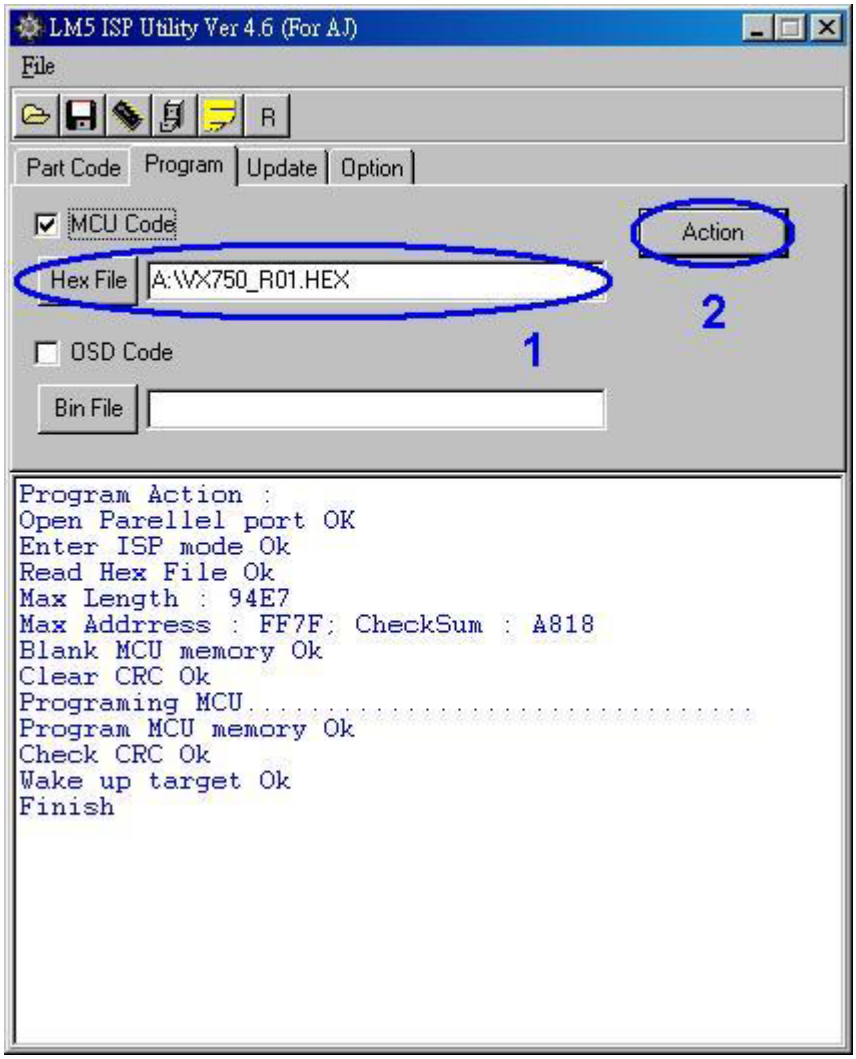
### 1.3.1 Run the “LM5ISP.exe” Program



1.3.2 Select the model name of Option Page



1.3.3 Read Firmware data from HEX File and then press “Action”



# 2 DDC Update Procedure

## 2.1 Equipment Needed

2.1.1 VE710s/b or VX750 Series monitor.

2.1.2 Fixture for DDC update.

2.1.3 VGA Cable.

2.1.4 Computer (NB or PC).

2.1.5 DDC update program (LM5ISP.exe).

## 2.2 Setup Procedure

2.2.1 Connect CN1 of Fixture to Printer Port of NB.

2.2.2 Connect CN2 of Fixture to VGA Cable.

2.2.3 Connect VGA Cable to Analog Input of monitor.

2.2.4 Turn on the Monitor power.

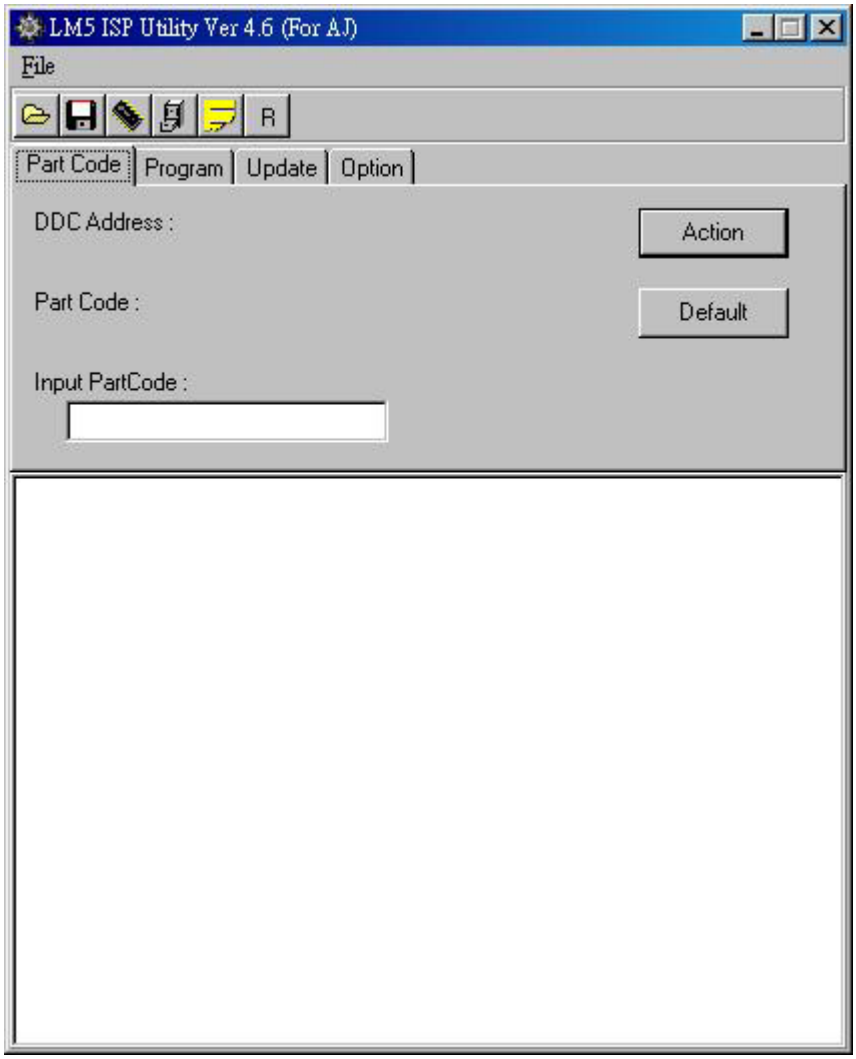
2.2.5 Copy the “LM5ISP.exe” to NB.

Cable Fixture NB

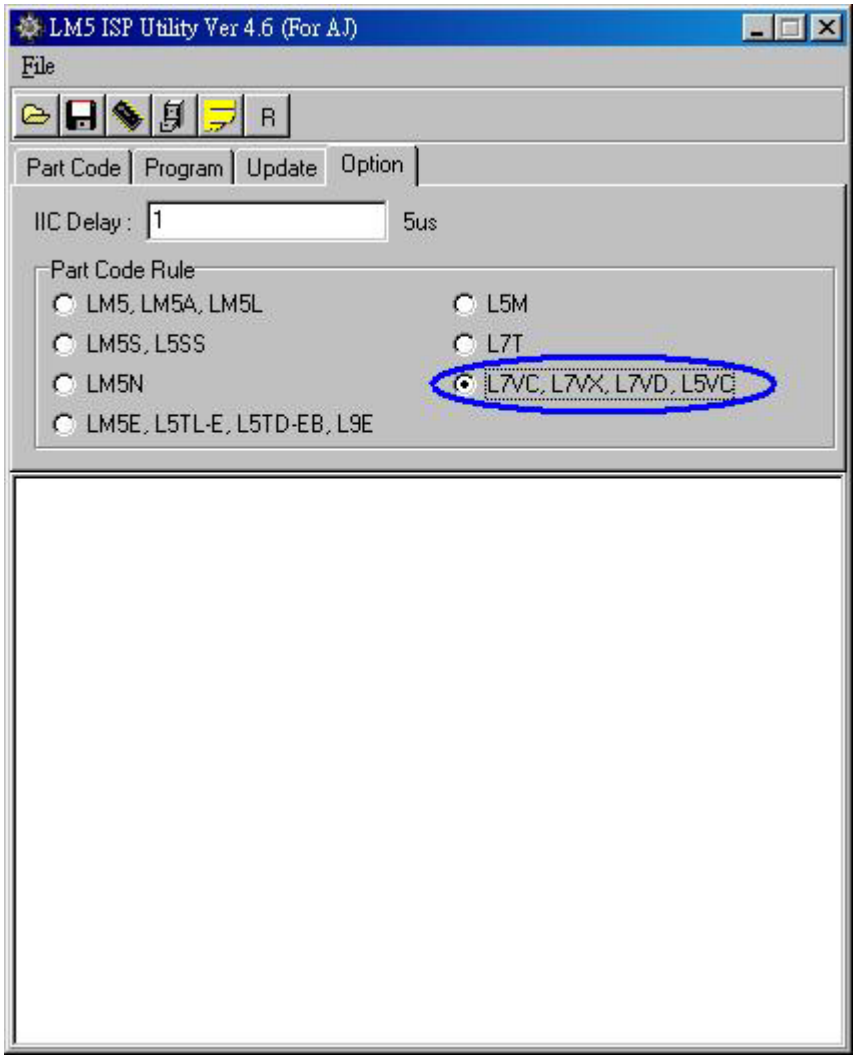
F/W or DDC Update

## 2.3 LM5ISP DDC Update

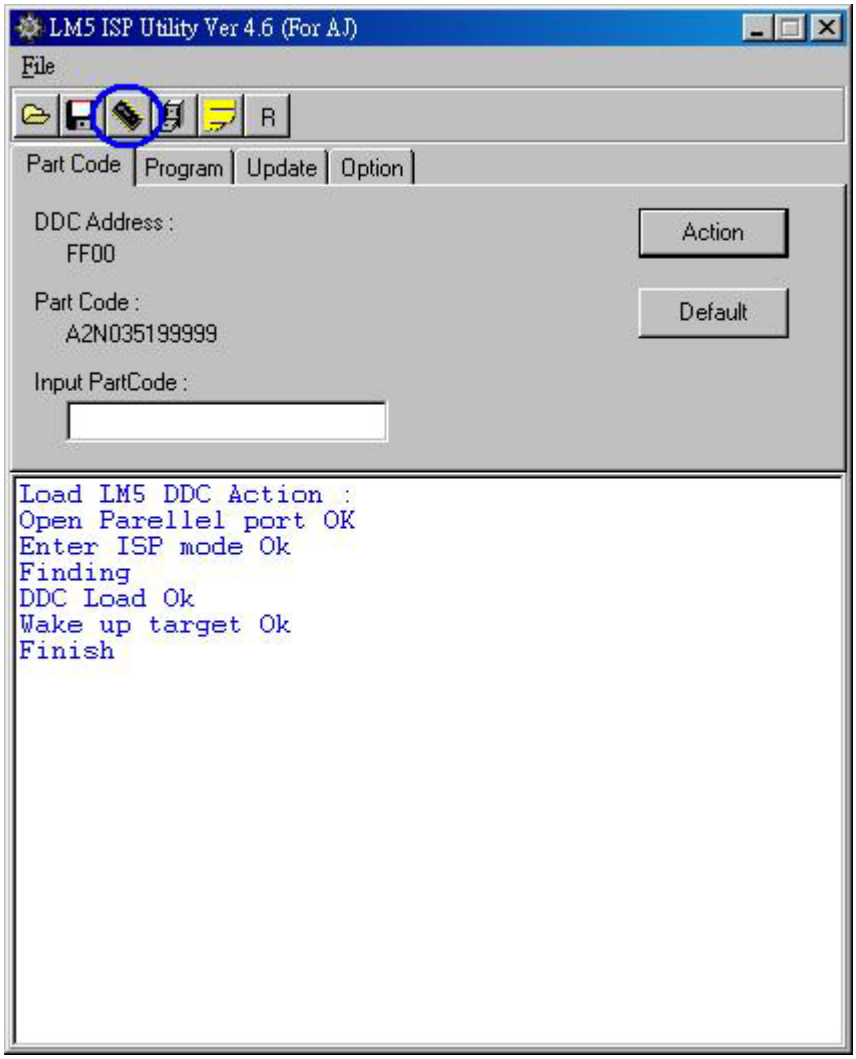
### 2.3.1 Run the “LM5ISP.exe” Program



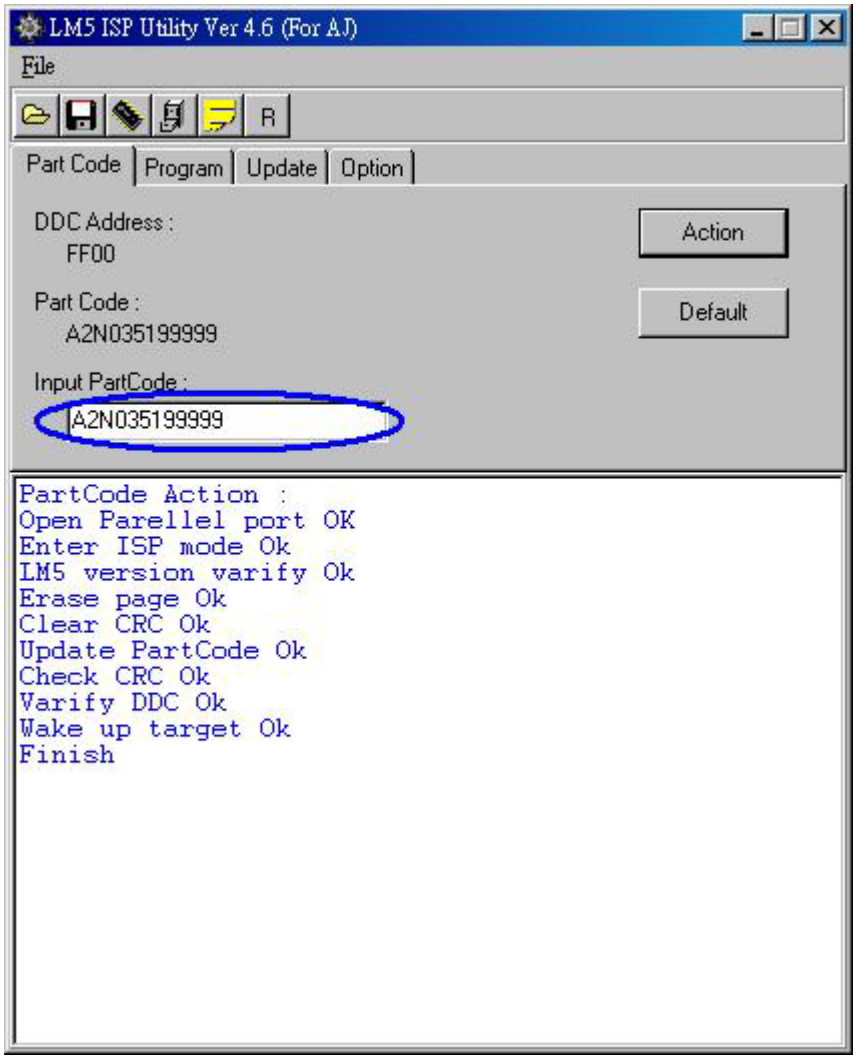
2.3.2 Select the model name of Option Page



2.3.3 Read DDC data from Monitor.

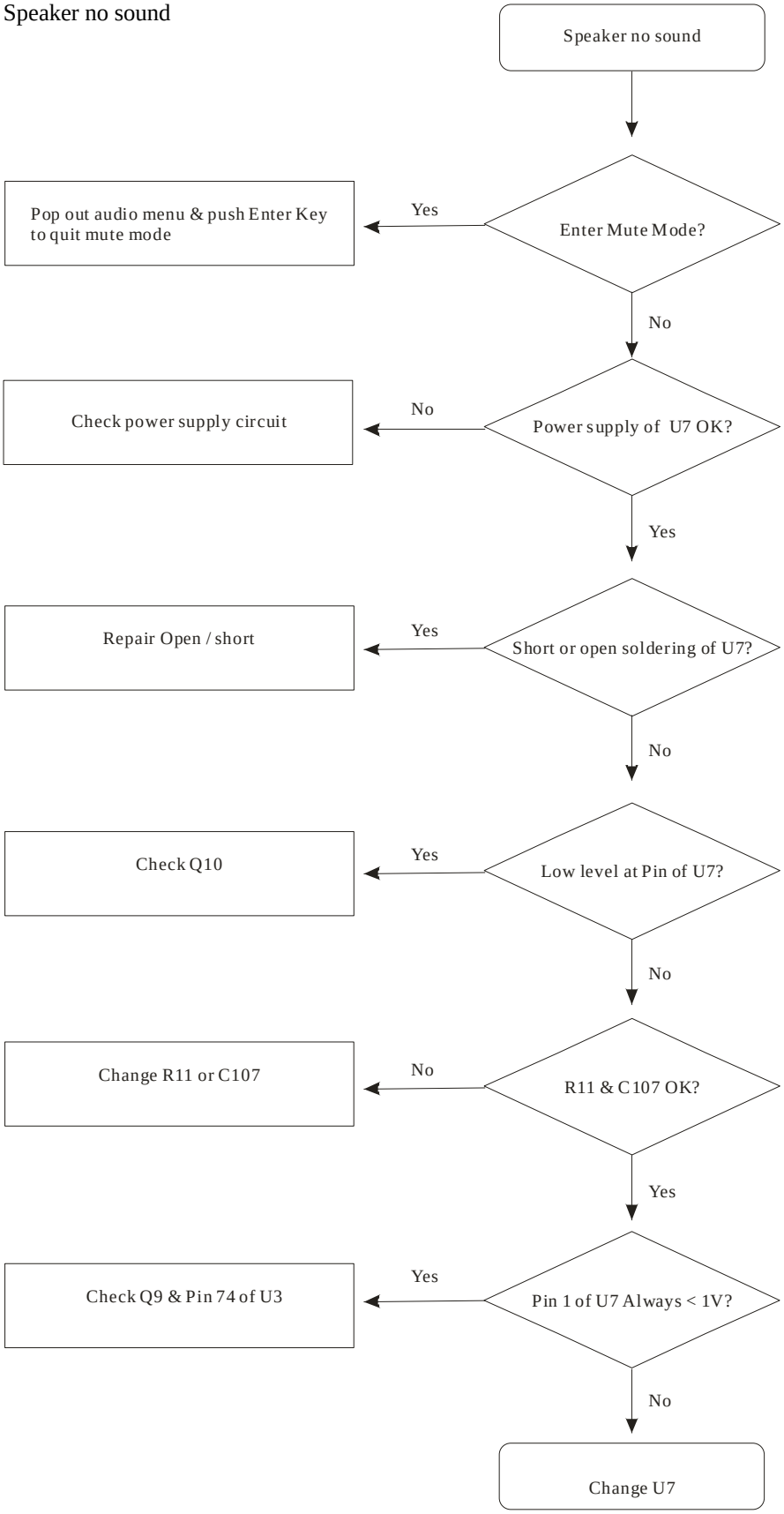


2.3.4 Key in the New Serial Number and then press “Enter” key

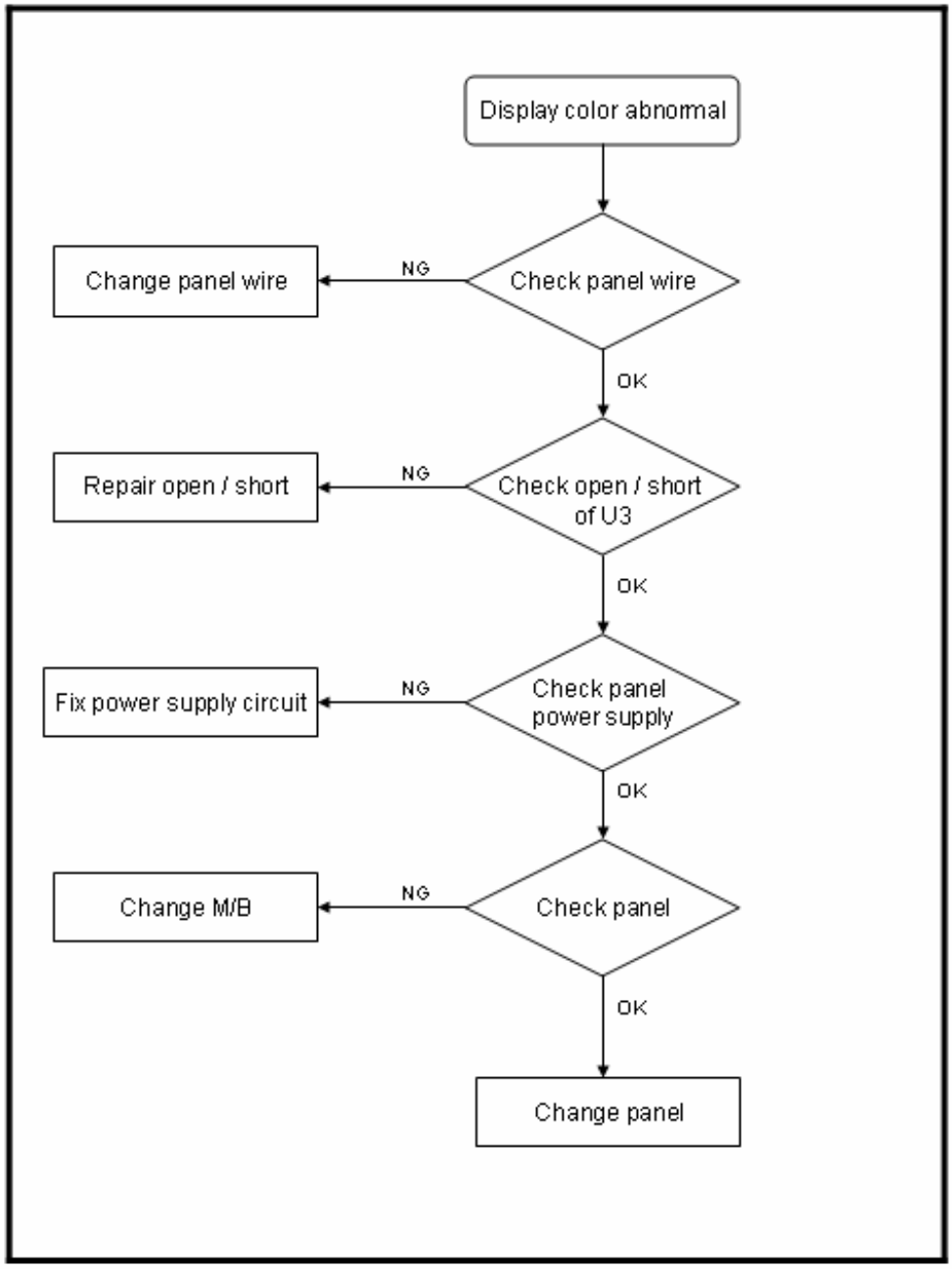


## 6. Trouble Shooting Flow Chart

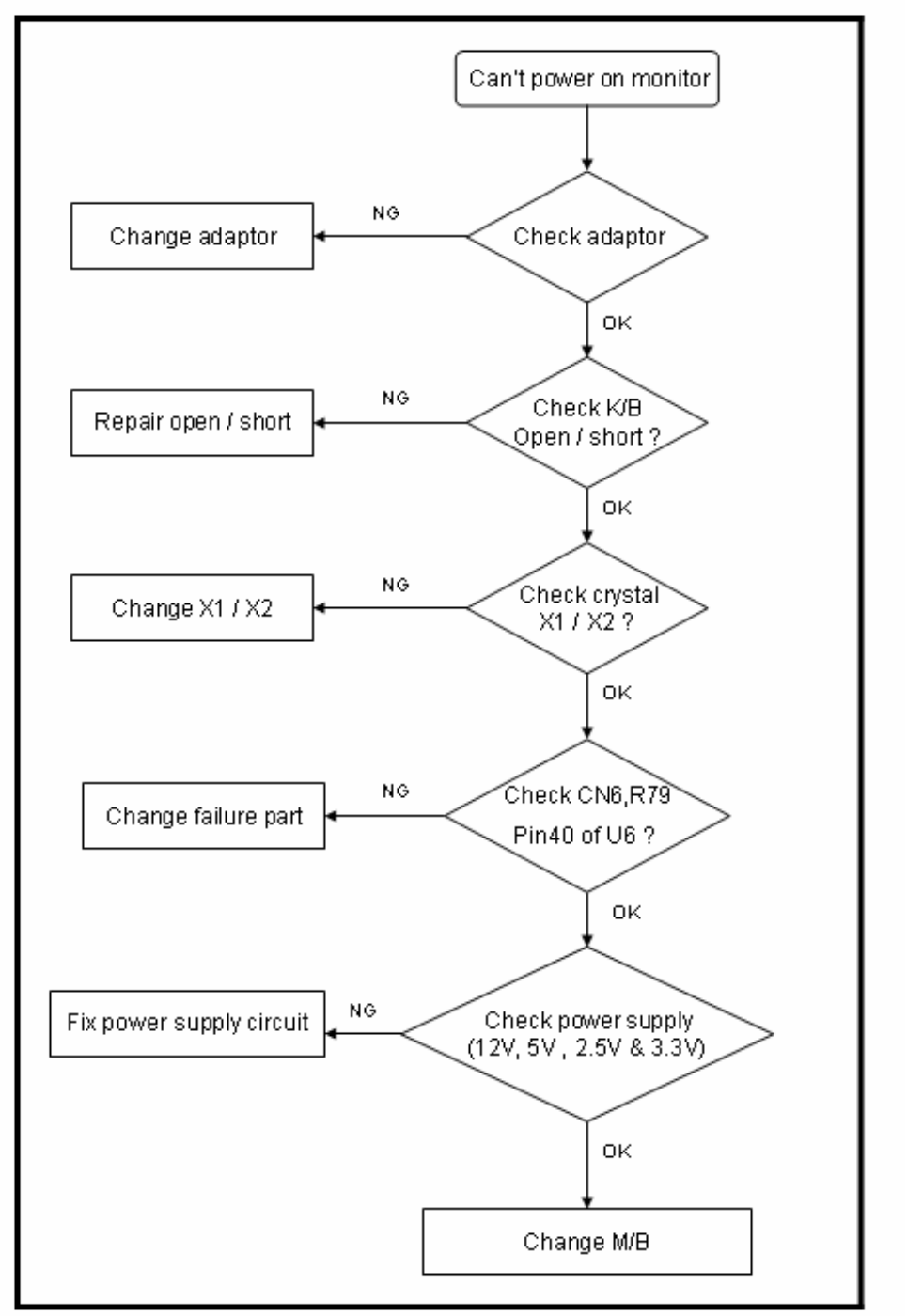
1. Speaker no sound



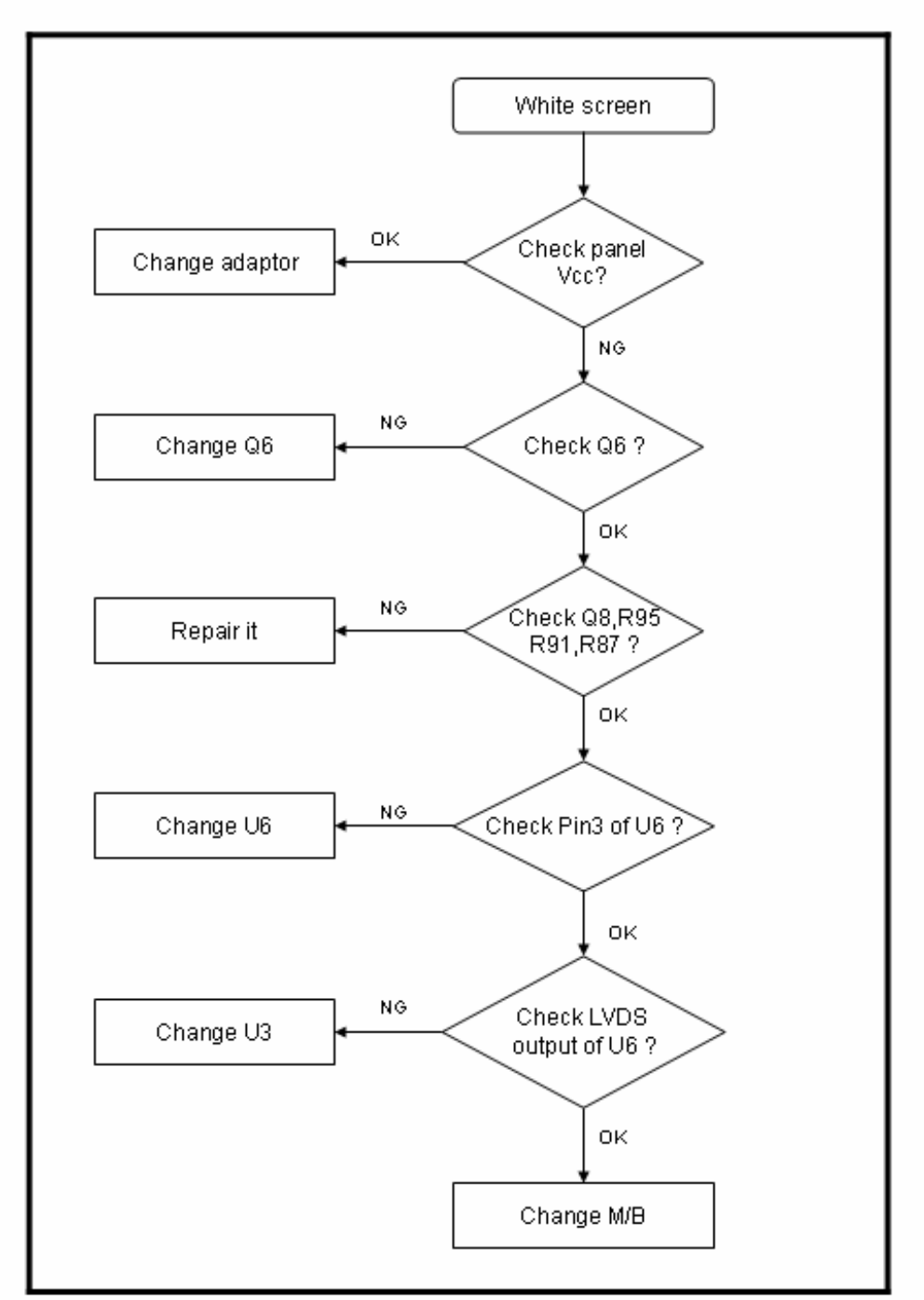
2. Display color abnormal:



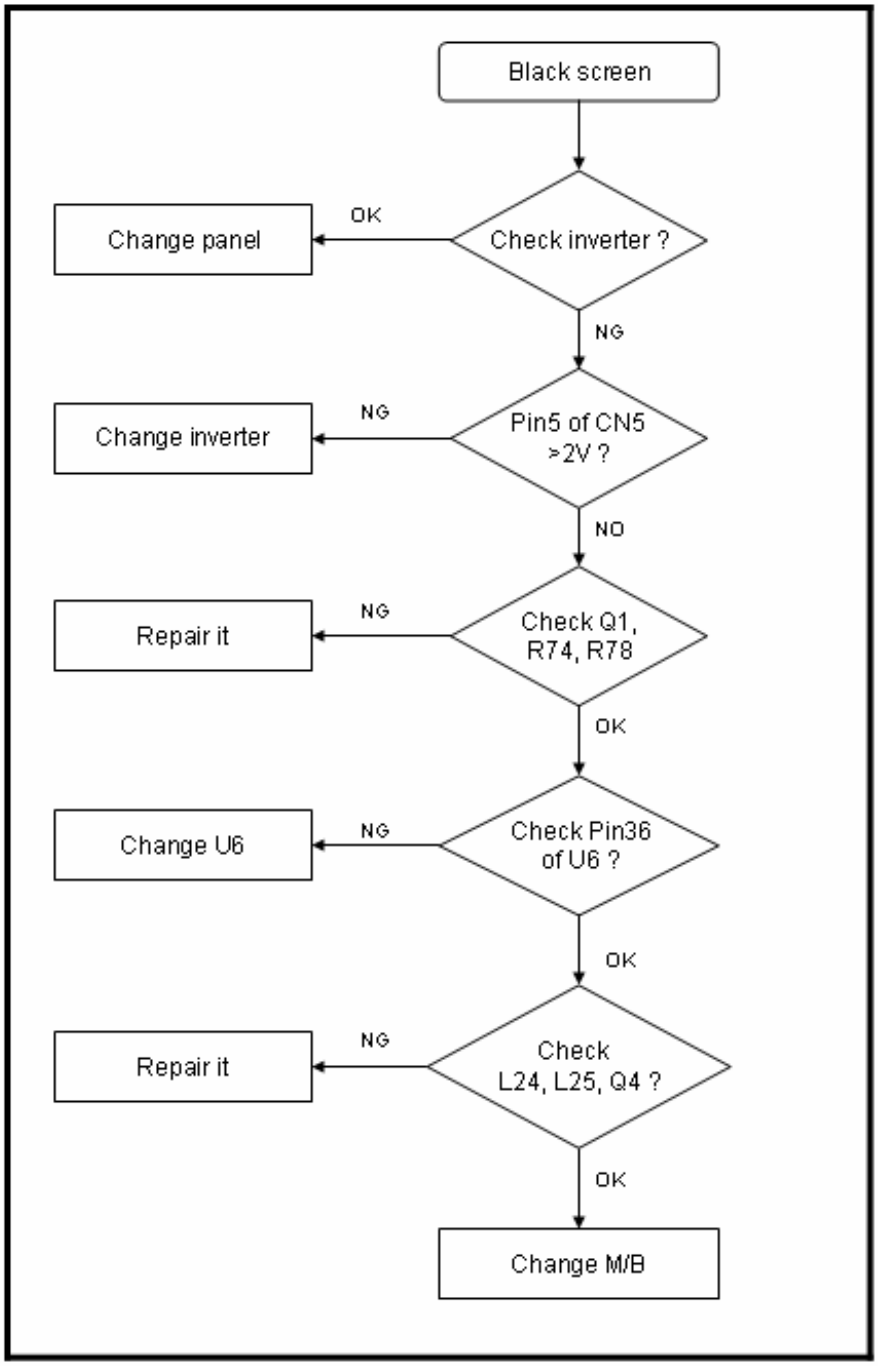
3. Monitor can not power on



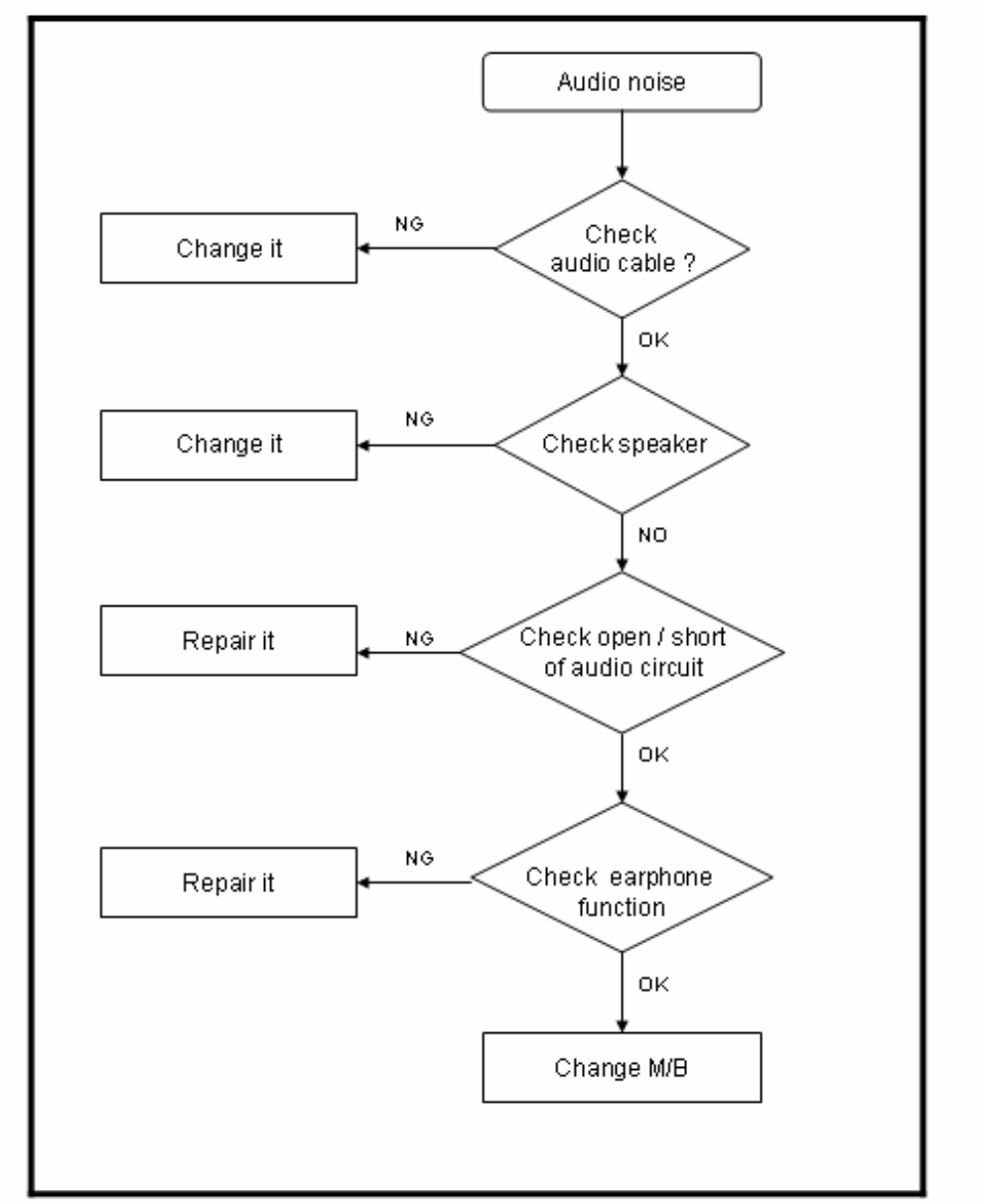
4. Monitor white screen



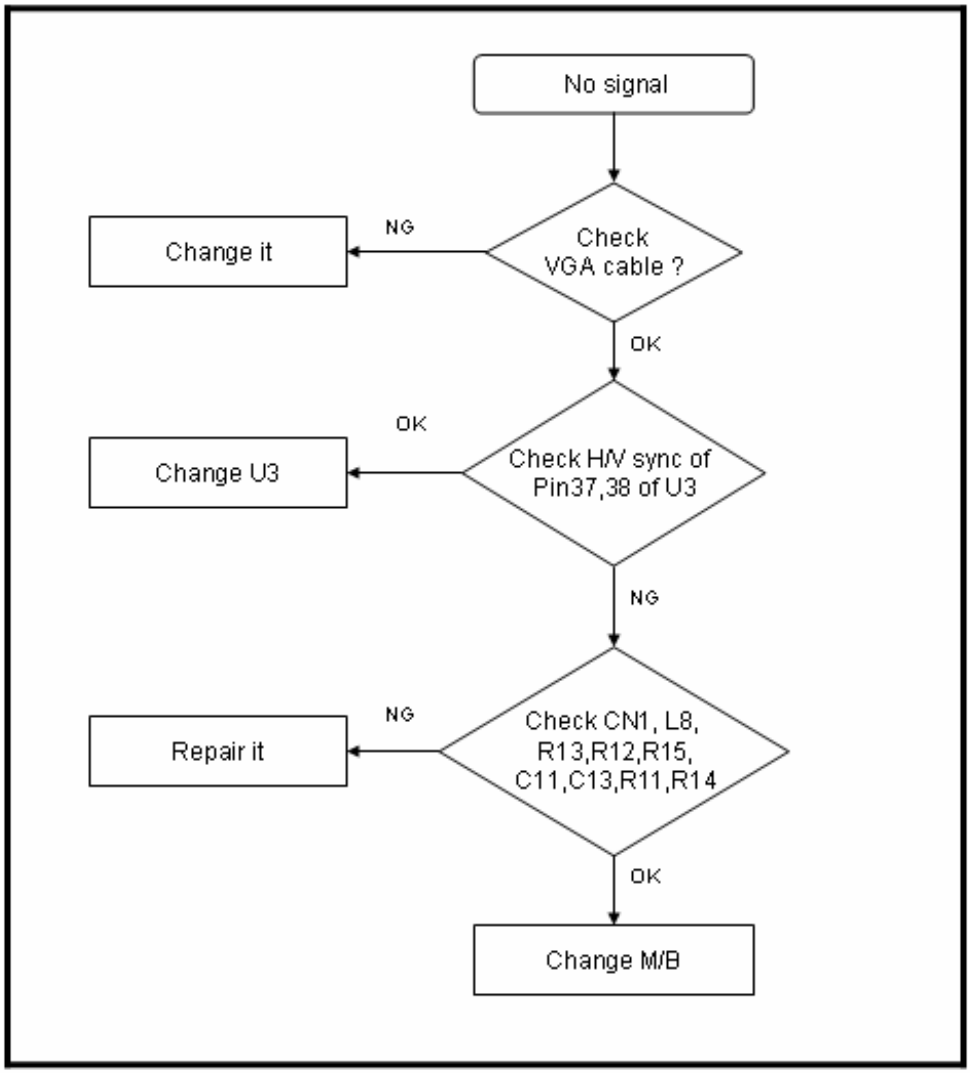
5. Monitor black screen



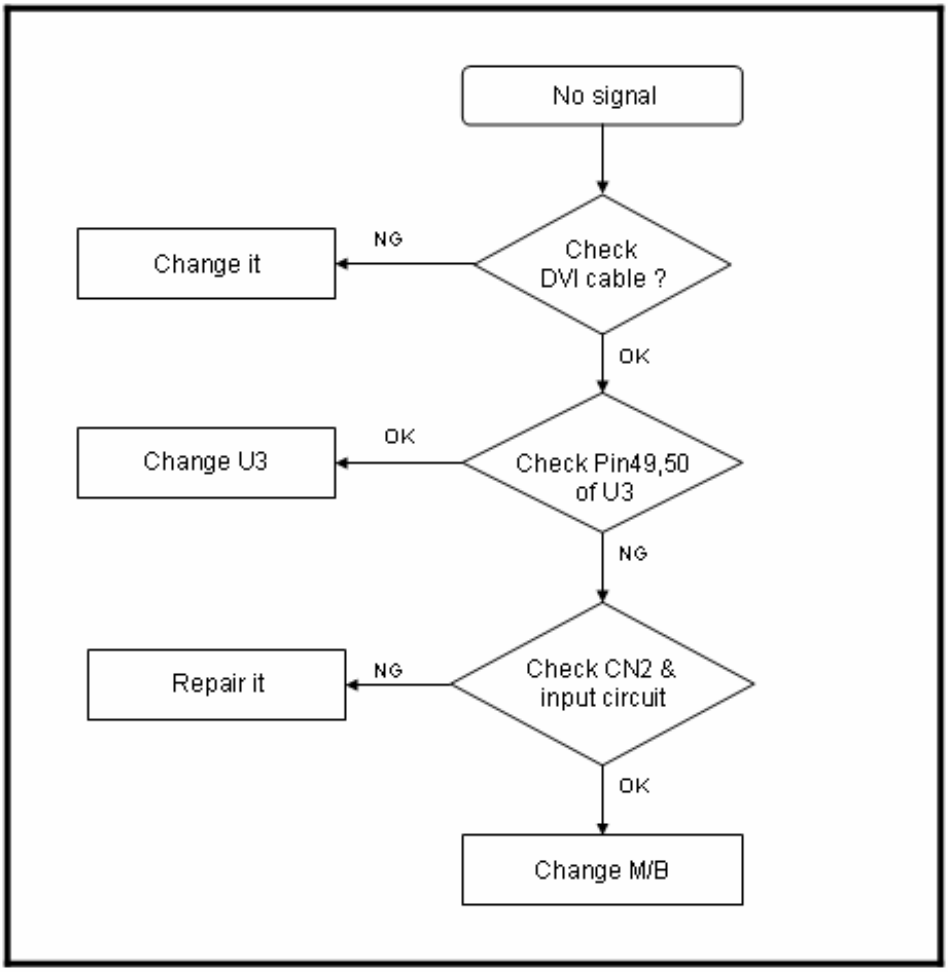
6. Audio noise:



7. Analog input: always shows NO SIGNAL:



8. Digital input: always shows NO SIGNAL



# 7. Recommended Spare Parts List

## VX750-1 RSPL

Recent Revision(s)

| Item | Reference P/N | ViewSonic P/N | Description of revision(s) |
|---|---|---|---|
| 11c | 26L7VSAVS09 | C-BS-0303-0508 | Removed to RSPL |
| 11d | 38L7VEBVS02 | PL-PS-0715-0981 | Added to RSPL |
| 12c | MF30050IBJ6 | M-SCW-0824-0725 | Removed to RSPL |
| 12d | 34L7VSSVS05 | PL-PS-0715-0982 | Added to RSPL |
| 13c | MM30050IBJ3 | M-SCW-0824-0728 | Removed to RSPL |
| 13d | 27L7VCSVS05 | B-MB-0201-0827 | Added to RSPL |
| 14c | MM30060IBJ8 | M-SCW-0824-6800 | Removed to RSPL |
| 14d | MF30070BBJ1 | M-SCW-0824-6822 | Added to RSPL |
| 15c | MM40060BBJ5 | M-SCW-0824-6803 | Removed to RSPL |
| 17d | DK500XSU008 | E-FS-0410-0114 | Added to RSPL |
| 18d | DM333181G97 | A-PC-0106-0224 | Added to RSPL |

| Item | Revision History | ViewSonic P/N | Ref. P/N | Description | Location | Universal number# | Lead time | Q'ty |
|---|---|---|---|---|---|---|---|---|
| 1 | | B-MB-0201-2728 | 21L7VSB0030 | Main Board | main board | | 4 weeks | 1 |
| 2 | | B-SB-0221-0596 | AS022172511 | Inverter | inverter | | 4 weeks | 1 |
| 3 | | P-BX-0601-0936 | HFL7V003010 | Carton | carton | | 4 weeks | 1 |
| 4 | | P-FM-0602-0845 | HBL7V003016 | Polyfrom (left) | polyfrom | | 4 weeks | 1 |
| 5 | | P-FM-0602-0846 | HBL7V004012 | Polyform (right) | polyfrom | | 4 weeks | 1 |
| 6 | | M-MS-0808-9158 | HAL7V002019 | EPE bag | EPE bag | | 4 weeks | 1 |
| 7 | | M-LB-0813-0920 | HCL7V007012 | ID label | ID label | | 4 weeks | 1 |
| 8 | | A-CD-VX750 | HGL7V002014 | CD wizard | CD | | 4 weeks | 1 |
| 9 | | M-CV-0830-2529 | 33L7VLSVB03 | Cover sub-ass'y | cover | | 4 weeks | 1 |
| 10 | | C-FP-0301-9930 | 32L7VLSVS06 | bezel sub-ass'y | bezel | | 4 weeks | 1 |
| 11c | Removed 04/13/04 | C-BS-0303-0508 | 26L7VSAVS09 | Base Ass'y | Base | | 4 weeks | 1 |
| 11d | Added 04/13/04 | PL-PS-0715-0981 | 38L7VEBVS02 | Enter base ass'y | enter base | | 4 weeks | 1 |
| 12c | Removed 04/13/04 | M-SCW-0824-0725 | MF30050IBJ6 | Screw ( To assembly the cabinet) | Screw | | 4 weeks | 10 |
| 12d | Added 04/13/04 | PL-PS-0715-0982 | 34L7VSSVS05 | Stand sub-ass'y | stand | | 4 weeks | 1 |
| 13c | Removed 04/13/04 | M-SCW-0824-0728 | MM30050IBJ3 | Screw ( To assembly the cabinet) | Screw | | 4 weeks | 3 |
| 13d | Added 04/13/04 | B-MB-0201-0827 | 27L7VCSVS05 | Chassis ass'y | chassis | | 4 weeks | 1 |
| 14c | Removed 04/13/04 | M-SCW-0824-6800 | MM30060IBJ8 | Screw ( To assembly the cabinet) | Screw | | 4 weeks | 14 |
| 14d | Added 04/13/04 | M-SCW-0824-6822 | MF30070BBJ1 | Screw ( To assembly the cabinet) | screw | | 4 weeks | 4 |
| 15c | Removed 04/13/04 | M-SCW-0824-6803 | MM40060BBJ5 | Screw ( To assembly the cabinet) | Screw | | 4 weeks | 6 |
| 15 | | M-LCD-0826-0195 | AA17EL07063 | LCD panel | panel | QD17EL07(SXGA) REV.03 | 4 weeks | 1 |
| 16 | | A-AD-0114-0205 | AG12042CK00 | Adapter | AC adaptor | ADP-50GH BB | 4 weeks | 1 |
| 17d | Added 04/13/04 | E-FS-0410-0114 | DK500XSU008 | Fuse | fuse | | 4 weeks | 1 |
| 18d | Added 04/13/04 | A-PC-0106-0224 | DM333181G97 | Power Cord 3P 1.8M(USA) | power cable | | 4 weeks | 1 |
| 19 | | B-CB-0206-0171 | 23L7VBB0000 | button board ass'y (function) | function key ass'y | | 4 weeks | 1 |
| 20 | | B-CB-0206-0172 | 23L7VBB0018 | button board ass'y (power key) | power key ass'y | | 4 weeks | 1 |

**VX750-1 VSA-M RSPL**

| Item | ViewSonic P/N | Ref. P/N | Description | Location | Universal number# | Lead time | Q'ty |
|---|---|---|---|---|---|---|---|
| 1 | B-MB-0201-2728 | 21L7VSB0030 | Main Board | main board | | 4 weeks | 1 |
| 2 | B-SB-0221-0596 | AS022172511 | Inverter | inverter | | 4 weeks | 1 |
| 3 | P-BX-0601-0936 | HFL7V003010 | Carton | carton | | 4 weeks | 1 |
| 4 | P-FM-0602-0845 | HBL7V003016 | Polyfrom (left) | polyfrom | | 4 weeks | 1 |
| 5 | P-FM-0602-0846 | HBL7V004012 | Polyform (right) | polyfrom | | 4 weeks | 1 |
| 6 | M-MS-0808-9158 | HAL7V002019 | EPE bag | EPE bag | | 4 weeks | 1 |
| 7 | M-LB-0813-0920 | HCL7V007012 | ID label | ID label | | 4 weeks | 1 |
| 8 | A-CD-VX750 | HGL7V002014 | CD wizard | CD | | 4 weeks | 1 |
| 9 | M-CV-0830-2529 | 33L7VLSVB03 | Cover sub-ass'y | cover | | 4 weeks | 1 |
| 10 | C-FP-0301-9930 | 32L7VLSVS06 | bezel sub-ass'y | bezel | | 4 weeks | 1 |
| 11 | PL-PS-0715-0981 | 38L7VEBVS02 | Enter base ass'y | enter base | | 4 weeks | 1 |
| 12 | PL-PS-0715-0982 | 34L7VSSVS05 | Stand sub-ass'y | stand | | 4 weeks | 1 |
| 13 | B-MB-0201-0827 | 27L7VCSVS05 | Chassis ass'y | chassis | | 4 weeks | 1 |
| 14 | M-SCW-0824-6822 | MF30070BBJ1 | Screw ( To assembly the cabin | screw | | 4 weeks | 4 |
| 15 | M-LCD-0826-0195 | AA17EL07063 | LCD panel | panel | QD17EL07(SXGA) REV.03 | 4 weeks | 1 |
| 16 | A-AD-0114-0205 | AG12042CK00 | Adapter | AC adaptor | ADP-50GH BB | 4 weeks | 1 |
| 17 | E-FS-0410-0114 | DK500XSU008 | Fuse | fuse | | 4 weeks | 1 |
| 18 | A-PC-0106-0224 | DM333181G97 | Power Cord 3P 1.8M(USA) | power cable | | 4 weeks | 1 |
| 19 | B-CB-0206-0171 | 23L7VBB0000 | button board ass'y (function) | function key ass'y | | 4 weeks | 1 |
| 20 | B-CB-0206-0172 | 23L7VBB0018 | button board ass'y (power key | power key ass'y | | 4 weeks | 1 |

**VX750-1 VSI-P RSPL**

| Item | ViewSonic P/N | Ref. P/N | Description | Location | Universal number# | Lead time | Q'ty |
|---|---|---|---|---|---|---|---|
| 1 | B-MB-0201-2728 | 21L7VSB0030 | Main Board | main board | | 4 weeks | 1 |
| 2 | B-SB-0221-0596 | AS022172511 | Inverter | inverter | | 4 weeks | 1 |
| 3 | P-BX-0601-0936 | HFL7V003010 | Carton | carton | | 4 weeks | 1 |
| 4 | P-FM-0602-0845 | HBL7V003016 | Polyfrom (left) | polyfrom | | 4 weeks | 1 |
| 5 | P-FM-0602-0846 | HBL7V004012 | Polyform (right) | polyfrom | | 4 weeks | 1 |
| 6 | M-MS-0808-9158 | HAL7V002019 | EPE bag | EPE bag | | 4 weeks | 1 |
| 7 | M-LB-0813-0920 | HCL7V007012 | ID label | ID label | | 4 weeks | 1 |
| 8 | A-CD-VX750 | HGL7V002014 | CD wizard | CD | | 4 weeks | 1 |
| 9 | M-CV-0830-2529 | 33L7VLSVB03 | Cover sub-ass'y | cover | | 4 weeks | 1 |
| 10 | C-FP-0301-9930 | 32L7VLSVS06 | bezel sub-ass'y | bezel | | 4 weeks | 1 |
| 11 | PL-PS-0715-0981 | 38L7VEBVS02 | Enter base ass'y | enter base | | 4 weeks | 1 |
| 12 | PL-PS-0715-0982 | 34L7VSSVS05 | Stand sub-ass'y | stand | | 4 weeks | 1 |
| 13 | B-MB-0201-0827 | 27L7VCSVS05 | Chassis ass'y | chassis | | 4 weeks | 1 |
| 14 | M-SCW-0824-6822 | MF30070BBJ1 | Screw ( To assembly the cabin | screw | | 4 weeks | 4 |
| 15 | M-LCD-0826-0195 | AA17EL07063 | LCD panel | panel | QD17EL07(SXGA) REV.03 | 4 weeks | 1 |
| 16 | A-AD-0114-0205 | AG12042CK00 | Adapter | AC adaptor | ADP-50GH BB | 4 weeks | 1 |
| 17 | E-FS-0410-0114 | DK500XSU008 | Fuse | fuse | | 4 weeks | 1 |
| 18 | A-PC-0106-0224 | DM333181G97 | Power Cord 3P 1.8M(USA) | power cable | | 4 weeks | 1 |
| 19 | B-CB-0206-0171 | 23L7VBB0000 | button board ass'y (function) | function key ass'y | | 4 weeks | 1 |
| 20 | B-CB-0206-0172 | 23L7VBB0018 | button board ass'y (power key | power key ass'y | | 4 weeks | 1 |

**VX750-1 VSE-E RSPL**

| Item | ViewSonic P/N | Ref. P/N | Description | Location | Universal number# | Lead time | Q'ty |
|---|---|---|---|---|---|---|---|
| 1 | B-MB-0201-2728 | 21L7VSB0030 | Main Board | main board | | 4 weeks | 1 |
| 2 | B-SB-0221-0596 | AS022172511 | Inverter | inverter | | 4 weeks | 1 |
| 3 | P-BX-0601-0936 | HFL7V003010 | Carton | carton | | 4 weeks | 1 |
| 4 | P-FM-0602-0845 | HBL7V003016 | Polyfrom (left) | polyfrom | | 4 weeks | 1 |
| 5 | P-FM-0602-0846 | HBL7V004012 | Polyform (right) | polyfrom | | 4 weeks | 1 |
| 6 | M-MS-0808-9158 | HAL7V002019 | EPE bag | EPE bag | | 4 weeks | 1 |
| 7 | M-LB-0813-0920 | HCL7V007012 | ID label | ID label | | 4 weeks | 1 |
| 8 | A-CD-VX750 | HGL7V002014 | CD wizard | CD | | 4 weeks | 1 |
| 9 | M-CV-0830-2529 | 33L7VLSVB03 | Cover sub-ass'y | cover | | 4 weeks | 1 |
| 10 | C-FP-0301-9930 | 32L7VLSVS06 | bezel sub-ass'y | bezel | | 4 weeks | 1 |
| 11 | PL-PS-0715-0981 | 38L7VEBVS02 | Enter base ass'y | enter base | | 4 weeks | 1 |
| 12 | PL-PS-0715-0982 | 34L7VSSVS05 | Stand sub-ass'y | stand | | 4 weeks | 1 |
| 13 | B-MB-0201-0827 | 27L7VCSVS05 | Chassis ass'y | chassis | | 4 weeks | 1 |
| 14 | M-SCW-0824-6822 | MF30070BBJ1 | Screw ( To assembly the cabir | screw | | 4 weeks | 4 |
| 15 | M-LCD-0826-0195 | AA17EL07063 | LCD panel | panel | QD17EL07(SXGA) REV.03 | 4 weeks | 1 |
| 16 | A-AD-0114-0205 | AG12042CK00 | Adapter | AC adaptor | ADP-50GH BB | 4 weeks | 1 |
| 17 | E-FS-0410-0114 | DK500XSU008 | Fuse | fuse | | 4 weeks | 1 |
| 18 | A-PC-0106-0227 | DM333181801 | Power Cord 3P 1.8M(EU) | power cable | | 4 weeks | 1 |
| 19 | B-CB-0206-0171 | 23L7VBB0000 | button board ass'y (function) | function key ass'y | | 4 weeks | 1 |
| 20 | B-CB-0206-0172 | 23L7VBB0018 | button board ass'y (power key | power key ass'y | | 4 weeks | 1 |

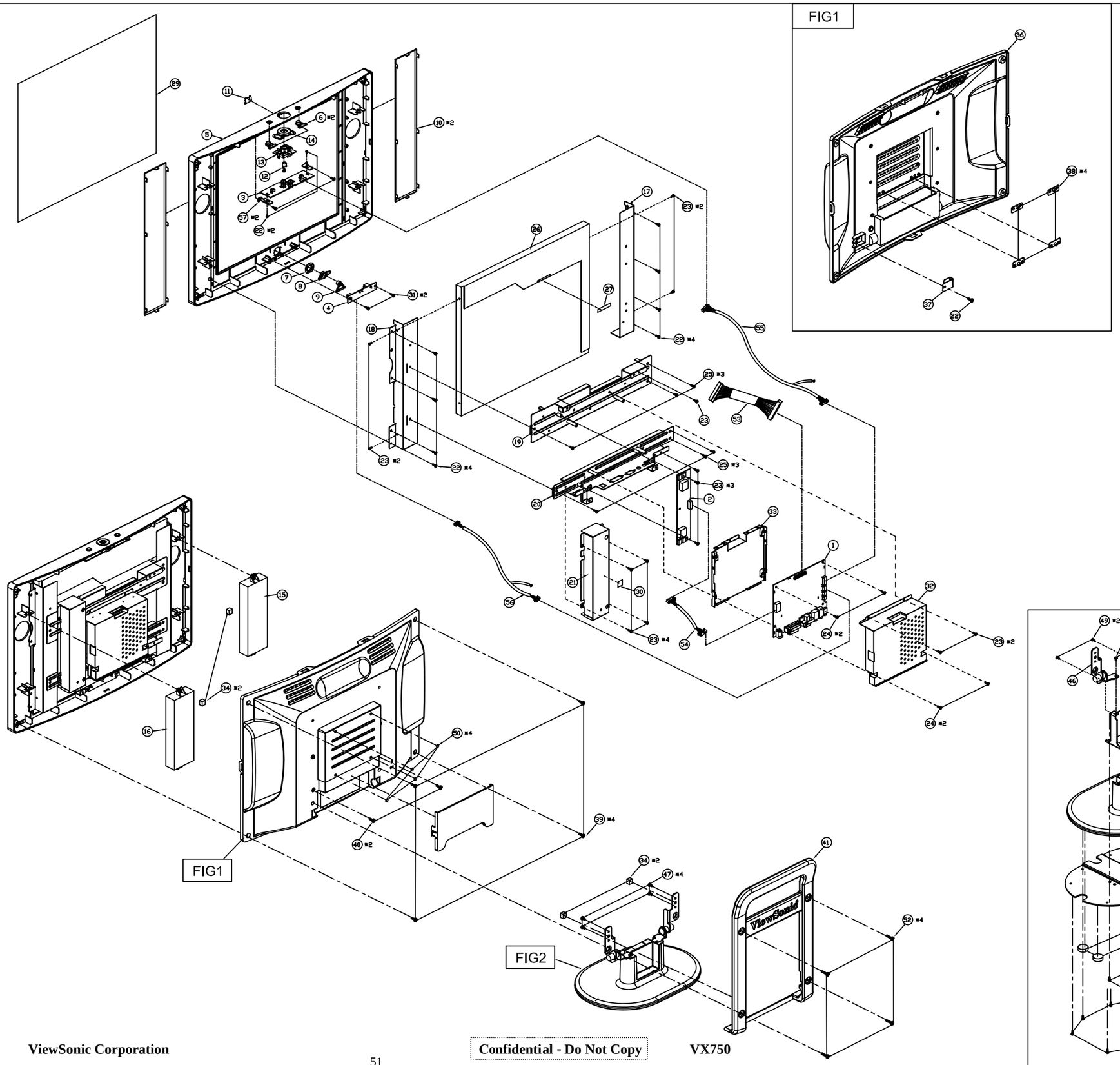
## VX750-1 BOM

| Item | ViewSonic P/N | Ref. P/N | Description | Location | Q'ty |
|---|---|---|---|---|---|
| 1 | #N/A | 1L7VZZZVS19 | L7VX LCD MONITOR (VSC VX750) | | |
| 2 | #N/A | 21L7VSB0030 | L7VX SCALAR/B ASSY(MST) | | 1 |
| 3 | #N/A | 31L7VSS0032 | L7VX SCALAR/B S/S ASSY(MST) | | 1 |
| 4 | #N/A | DAL7VXTH2C1 | PCB L7VX SCALER/B(2L,108*96,REVC) | | 1 |
| 5 | #N/A | AJ08131CC06 | IC(128P) MST8131A(135MHZ,FQFP) | U3 | 1 |
| 6 | E-IC-0401-2651 | AKE3A8S0Y01 | IC,EEPROM(8P) 24LC16B/SN(2K*8,100KHZ) | U5 | 1 |
| 7 | #N/A | AJ00312VP18 | IC(44P) MTV312MV64AJ(12MHZ,PLCC) | U6 | 1 |
| 8 | E-IC-0401-2652 | AKE3D8Q0A00 | IC EEPROM(8P)AT24C21-10SI-2.5(128*8,10NS | U2 | 1 |
| 9 | #N/A | AKE3D8S0Y11 | IC,EEPROM(8P) 24LC21A/SN(128*8,100KHZ) | U2 | 1 |
| 10 | #N/A | BA039040Z01 | TRANSISTOR,SMD MMBT3904(40V,200MA) | Q10 | 1 |
| 11 | E-Q-0402-1582 | BAN70020T04 | TRANSISTOR MOSFET 2N7002(60V,0.115A) | Q1,Q4,Q9 | 3 |
| 12 | #N/A | CH01206J906 | CAPACITOR CHIP 12P 50V(+-5%,NPO,0603) | C64,C65,C66 | 3 |
| 13 | #N/A | CH31006K919 | CAP CHIP 0.01U 50V(+-10%,X7R,0603) | C7,C90,C91,C110,C111 | 5 |
| 14 | #N/A | CH41004Z931 | CAP CHIP 0.1U,25V(+80-20%,Y5V,0603) | C14,C18,C19,C20,C21,C22,C23,C24,C26,C27,C29,C31,C32,C34,C35,C37,C38,C39,C40,C43,C44,C46,C47,C48,C49,C50,C51,C52,C53,C67,C75,C83,C84,C100,C104,C109,C113,C114,C118,C126,C134,C141 | 42 |
| 15 | #N/A | CH51004MA32 | CAPACITOR CHIP 1UF 25V(+-20%,Y5V,0805) | C45,C68,C79,C93,C108,C117 | 6 |
| 16 | #N/A | CH51001K991 | CAP CHIP 1U 6.3V(+-10%,X5R,0603) | C62,C94,C95,C96,C97,C98,C99,C102,C103,C105,R73 | 11 |
| 17 | #N/A | CH02206J909 | CAPACITOR CHIP 22P 50V(+-5%,NPO,0603) | C41,C42,C55,C56,C57,C58 | 6 |
| 18 | #N/A | CH11206J908 | CAPACITOR CHIP 120P 50V(+-5%,NPO,0603) | C122 | 1 |
| 19 | #N/A | CH12206J901 | CAPACITOR CHIP 220P 50V(+-5%,NPO,0603) | C86,C87,C88,C89,C107 | 5 |
| 20 | #N/A | CH21006K917 | CAP CHIP 1000P 50V(+-10%,X7R,0603) | C81,C82,C115,C116,C125,C137 | 6 |
| 21 | #N/A | CH22206K917 | CAP CHIP 2200P 50V(+-10%,X7R,0603) | C74,C124 | 2 |
| 22 | #N/A | CH34703K916 | CAP CHIP 0.047UF 16V(+-10%,X7R,0603) | C1,C3,C4,C6,C8,C10 | 6 |
| 23 | #N/A | CH41004MA14 | CAPACITOR CHIP 0.1U 25V(+-20%,X7R,0805) | C60,C119,C120,C121 | 4 |
| 24 | #N/A | CS00003J900 | RESISTOR CHIP 0 1/10W+-5%(0603) | D9,L4,R77,R98,R99 | 5 |
| 25 | #N/A | CS02203J902 | RES CHIP 22 1/10W +-5%(0603) | R33,R34,R36,R37,R53,R54,R57,R63,R66 | 9 |
| 26 | #N/A | CS07503F905 | RESISTOR CHIP 75 1/10W +-1%(1608) | R2,R5,R9 | 3 |
| 27 | #N/A | CS11003J904 | RESISTOR CHIP 100 1/10W +-5%(0603) | L1,L6,L8,R7,R11,R13,R14,R20,R21,R25,R26,R31,R32,R47,R48,R67,R80,R131 | 18 |
| 28 | #N/A | CS21003F904 | RESISTOR CHIP 1K,1/10W,+-1%(0603) | R122 | 1 |
| 29 | #N/A | CS21003J906 | RES CHIP 1K 1/10W +-5%(0603) | L15,L16,L17,L18,L19,L20,L21,R79,R96,R120 | 10 |
| 30 | #N/A | CS24703J900 | RES CHIP 4.7K 1/10W +-5%(0603) | R82,R84,R85,R134 | 4 |
| 31 | #N/A | CS31003J908 | RES CHIP 10K 1/10W +-5%(0603) | R38,R39,R40,R41,R42,R43,R44,R51,R55,R59,R61,R68,R71,R72,R74,R92,R95,R97,R102,R103,R113,R114,R115,R129,R140 | 25 |
| 32 | #N/A | CS38203J904 | RES CHIP 82K 1/10W +-5%(0603) | R91,R106 | 2 |
| 33 | #N/A | CS32003F909 | RES CHIP 20K 1/10W +-1%(0603) | R105,R107,R109,R112 | 4 |
| 34 | #N/A | CX0P121R000 | EMI FILTER CHIP HI1206P121R-00(120 6A) | L24,L25,L31,L32,L33,L34,L35,L36,L37,L38,L39,L40,L42,L44,L45,L46 | 16 |
| 35 | #N/A | AL004881011 | IC(8P)LM4881MM(MSOP) | U8 | 1 |
| 36 | #N/A | AL003002H04 | IC(48P)TPA3002D2(HTQFP) | U7 | 1 |
| 37 | #N/A | CS41203F905 | RES CHIP 120K 1/10W +-1%,0603 | R104,R111 | 2 |
| 38 | E-IC-0401-2653 | AL001117078 | IC(3P) AIC1117CY(SOT-223) | U10,U11 | 2 |
| 39 | E-IC-0401-2654 | AL001563001 | IC(8P) AIC1563CS(SOP8) | U9 | 1 |
| 40 | #N/A | BA039060Z01 | TRANSISTOR,SMD MMBT3906(40V,200MA) | Q2,Q3,Q12 | 3 |
| 41 | E-Q-0402-1580 | BAM9410YZ02 | TRANSISTOR MOSFET SI9410DY(30V,7A) | Q11 | 1 |
| 42 | E-D-0403-2082 | BC1SS355Z05 | DIODE SMD 1SS355(80V,100MA) | D33,D34 | 2 |
| 43 | E-D-0403-2084 | BCRB081LZ02 | DIODE SMD RB081L-20(20V,5.0A,VF:0.45V) | D35 | 1 |
| 44 | #N/A | CS00006J205 | RESISTOR CHIP 0 1/4W+-5%(3216) | R116 | 1 |
| 45 | #N/A | CS04703J906 | RES CHIP 47 1/10W +-5%(0603) | R117 | 1 |
| 46 | #N/A | CS12003F905 | RESISTOR CHIP 200 1/10W+-1%(0603) | R123,R124,R125 | 3 |
| 47 | #N/A | CS13303F909 | RESISTOR CHIP 330 1/10W +-1%(0603) | R126 | 1 |
| 48 | #N/A | CS23003F900 | RES CHIP 3K 1/10W +-1%(0603) | R121 | 1 |
| 49 | #N/A | CS42403F905 | RESISTOR CHIP 240K 1/10W,+-1%(0603) | R119 | 1 |
| 50 | #N/A | CS43303J906 | RES CHIP 330K 1/10W +-5%(0603) | R118 | 1 |
| 51 | #N/A | CS22203J906 | RES CHIP 2.2K 1/10W +-5%(0603) | R23,R24,R58,R60,R127,R130 | 6 |
| 52 | E-FS-0410-0114 | DK500XSU008 | FUSE SMD 5A,125V(SLOW,UL/CSA) | FUSE1 | 1 |
| 53 | #N/A | CX201209805 | EMI FILTER CHIP FBM-11-201209-121A40 | L9,L10,L11,L12,L13,L14,L22,L23,R87 | 9 |
| 54 | #N/A | CS22003J909 | RES CHIP 2K 1/10W +-5%(0603) | R12,R15,R45,R46 | 4 |
| 55 | #N/A | CS13903J902 | RES CHIP 390 1/10W +-5%(0603) | R30 | 1 |
| 56 | #N/A | BAM23010Z05 | TRANSISTOR MOSFET SI2301DS(-12V,-2.3A) | Q6 | 1 |
| 57 | #N/A | BA001440Z87 | TRANSISTOR SMD PDTC144EU (50V,30MA) | Q8 | 1 |
| 58 | #N/A | BCBAT54CZ02 | DIODE SMD BAT54C(30V,200MA,SCHOTTKY) | D12,D43 | 2 |
| 59 | #N/A | CH42206Z932 | CAP CHIP 0.22U,50V(+80%-20%,Y5V,0603) | C73 | 1 |
| 60 | #N/A | CS34703J901 | RES CHIP 47K 1/10W +-5%(0603) | R49,R100,R101 | 3 |
| 61 | #N/A | CS26803J909 | RESISTOR CHIP 6.8K 1/10W +-5%(1608) | R133 | 1 |
| 62 | #N/A | CS03303J909 | RES CHIP 33 1/10W +-5%(0603) | R1,R4,R8,R19 | 4 |

| Item | ViewSonic P/N | Ref. P/N | Description | Location | Q'ty |
|---|---|---|---|---|---|
| 63 | #N/A | CS-1993F907 | RES CHIP 4.99 1/10W +-1%(0603) | R142,R143,R144,R145,R146,R147,R148,R149 | 8 |
| 64 | #N/A | CS-4993F905 | RES CHIP 4.99 1/10W +-1%(0603) | R142,R143,R144,R145,R146,R147,R148,R149 | 8 |
| 65 | #N/A | CX000300104 | EMI FILTER CHIP FCM1608C-300T06 30,600MA | L2,L3,L7 | 3 |
| 66 | #N/A | CS06803J905 | RESISTOR CHIP 68 1/10W +-5%(1608) | R3,R6,R10 | 3 |
| 67 | #N/A | CH03306J905 | CAPACITOR CHIP 33P 50V(+-5%,NPO,0603) | C11,C13 | 2 |
| 68 | #N/A | CS41003F908 | RESISTOR CHIP 100K 1/10W+-1%(0603) | R78 | 1 |
| 69 | #N/A | CS25603J909 | RES CHIP 5.6K 1/10W +-5%(0603) | R83 | 1 |
| 70 | #N/A | CS12203J904 | RES CHIP 220 1/10W +-5%(0603) | R81 | 1 |
| 71 | E-X-0415-0128 | BG614318D55 | XTAL DIP 14.318MHZ(+-30PPM,07010-X-136-2 | X1 | 1 |
| 72 | #N/A | CC62204MD23 | CAP ELEC 22U 25V(+-20%,105C,5*11,2000HR) | C17,C25,C28,C30,C33,C36,C54,C80,C101,C106,C112 | 11 |
| 73 | #N/A | CC71004MD68 | CAP ELEC 100U 25V +-20%,105C,6*11,LESR | C85,C92,C128,C129,C130,C131 | 6 |
| 74 | #N/A | CC73303MD51 | CAP ELEC 330U 16V(+-20%,105C,8*11,2000HR | C61,C76,C123 | 3 |
| 75 | #N/A | DFDI24FR043 | CONN DIP DVI 24P 3R FR(P1.905,H10.04) | CN2 | 1 |
| 76 | #N/A | DFDS15FR050 | CONN D-SUB 15P 3R FR,P1.15,H12.55,NO SRW | CN1 | 1 |
| 77 | #N/A | DFHD08MR301 | CONN DIP HEADER 8P 1R MR(P2.0,H4.1) | CN3 | 1 |
| 78 | M-MS-0808-7694 | DFHD06MR093 | CONN DIP HEADER 6P 1R MR(P2.5,H4.1) | CN5 | 1 |
| 79 | #N/A | DFHD30MR259 | CONN DIP HEADER 30P 2R MR(P2.0,H4.0) | CN7 | 1 |
| 80 | #N/A | DFHD03MR081 | CONN DIP HEADER 3P 1R MR(P2.0,H4.1) | CN13 | 1 |
| 81 | #N/A | DFPJ05FR145 | CONN DIP PHONE JACK 5P FR(H10)248C | CN10 | 1 |
| 82 | M-MS-0808-7693 | DFHD04MR124 | CONN DIP HEADER 4P 1R MR(P2.0,H4.1) | CN6 | 1 |
| 83 | #N/A | DFHD02MR192 | CONN DIP HEADER 2P 1R MR(P2.0,H4.1) | CN14 | 1 |
| 84 | #N/A | DFPJ06MS123 | CONN PHONE JACK 6P MS(H5.0)SHLD | CN11 | 1 |
| 85 | M-MS-0808-7698 | DFPJ05FR137 | CONN DIP PHONE JACK 5P FR(H10) | CN12 | 1 |
| 86 | #N/A | DFPJ03MR336 | CONN POWER JACK 3P MR | CN15 | 1 |
| 87 | E-L-0407-1562 | CWK5BR6H019 | FERRITE CORE K5B R6H 6*10*0.85-2TS-B | L41 | 1 |
| 88 | E-L-0407-1563 | DC04725K002 | CHOKE COIL 47UH(2.5A,+-10%,T07473) | L43 | 1 |
| 89 | E-C-0404-4904 | CC81001MD71 | CAP ELEC DIP 1000U6.3V +-20% 105C 8*11.5 | C127 | 1 |
| 90 | #N/A | BG611059319 | CRYSTAL DIP 11.0592MHZ(+-30PPM,49/US) | X2 | 1 |
| 91 | B-SB-0221-0596 | AS022172511 | INV MODULE(TDK)L7VX(12V,V=720V,I=7MA,A1A | | 1 |
| 92 | #N/A | 23L7VBB0000 | L7VX BUTTON/B ASSY (FUNCTION KEY) | | 1 |
| 93 | #N/A | DAL7VXTB2D1 | PCB(BUTTON-1)L7VX TB(2L,122*20,REVD) | | 1 |
| 94 | M-MS-0808-9582 | DDL7VXTH004 | CABLE ASSY L7VX MB-BUTTON1(8P,REV1A) | CN1 | 1 |
| 95 | PL-BT-0706-0127 | DHP0002B108 | SWITCH PUSH BUTTON(PT-002-B1,50MA,12V | SW1,SW2,SW3,SW4,SW5,SW6 | 6 |
| 96 | #N/A | DHP0004A102 | SWITCH PUSH BUTTON(PT-004-A1,50MA,12V) | SW7 | 1 |
| 97 | #N/A | 23L7VBB0018 | L7VX BUTTON/B ASSY (POWER KEY) | | 1 |
| 98 | #N/A | BEBY0002DA0 | LED(DIP) BLUE/YELLOW(L-130WCP/1QBDN1XW) | LED1,LED2 | 2 |
| 99 | #N/A | DAL7VTB12D3 | PCB(BUTTON-2)L7VX TB(2L,50*12,REVD) | | 1 |
| 100 | M-MS-0808-7693 | DFHD04MR124 | CONN DIP HEADER 4P 1R MR(P2.0,H4.1) | CN2 | 1 |
| 101 | PL-BT-0706-0127 | DHP0002B108 | SWITCH PUSH BUTTON(PT-002-B1,50MA,12V | SW1 | 1 |
| 102 | #N/A | 24L7VLAVS00 | L7VX LCD BEZEL ASSY | | 1 |
| 103 | #N/A | 32L7VLSVS06 | L7VX LCD BEZEL SUB ASSY | | 1 |
| 104 | C-FP-0301-9937 | EAL7V004011 | LCD BEZEL L7VX(EAL7V004,REV3A) | | 1 |
| 105 | PL-BT-0706-0170 | EBL7V008018 | FUNCTION BUTTON L7VX(EBL7V008,REV3A) | | 2 |
| 106 | M-CV-0830-2554 | EBL7V012015 | POWER COVER L7VX(EBL7V012,REV3A) | | 1 |
| 107 | M-MS-0808-9594 | EBL7V013011 | LENS LED L7VX(EBL7V013,REV3A) | | 1 |
| 108 | M-MS-0808-9595 | EBL7V014018 | POWER KEY L7VX(EBL7V014,REV3A) | | 1 |
| 109 | M-CV-0830-2558 | FAL7V008017 | SPEAKER COVER L7VX(FAL7V008,REV3A) | | 2 |
| 110 | M-LB-0813-0744 | HCL7V001014 | LOGO LABEL(HCL7V001,REV3A) | | 1 |
| 111 | PL-PS-0715-0981 | 38L7VEBVS02 | L7VX ENTER BASE ASSY | | 1 |
| 112 | PL-BT-0706-0171 | EBL7V009014 | ENTER BUTTON L7VX(EBL7V009,REV3A) | | 1 |
| 113 | PL-BT-0706-0172 | EBL7V011019 | BASE ENTER L7VX(EBL7V011,REV3A) | | 1 |
| 114 | PL-BT-0706-0173 | EBL7V010012 | CURSOR BUTTON L7VX(EBL7V010,REV3A) | | 1 |
| 115 | M-MS-0808-9596 | DN0QT120009 | SPEAKER ASSY L7VX FG-QT120B 5W*1 | | 1 |
| 116 | M-MS-0808-9597 | DN0QT120106 | SPEAKER ASSY L7VX FG-QT120A 5W*1 | | 1 |
| 117 | M-BK-0805-0085 | FAL7V002019 | LCD BKT(L) L7VX(FAL7V002,REV3A) | | 1 |
| 118 | M-BK-0805-0086 | FAL7V003015 | LCD BKT(R) L7VX(FAL7V003,REV3A) | | 1 |
| 119 | M-BK-0805-0087 | FAL7V004011 | SCALAR BKT UPPER L7VX(FAL7V004,REV3A) | | 1 |
| 120 | M-BK-0805-0088 | FAL7V005018 | SCALAR BKT DOWN L7VX(FAL7V005,REV3A) | | 1 |
| 121 | M-MS-0808-9598 | FBL7V012015 | INV SHIELDING L7VX(FBL7V012,REV3A) | | 1 |
| 122 | M-SCW-0824-0725 | MF30050IBJ6 | SCREW F3*5-I(NI) | | 8 |
| 123 | M-SCW-0824-0728 | MM30050IBJ3 | SCREW M3.0*5.0-I(NI) | | 14 |
| 124 | M-SCW-0824-6800 | MM30060IBJ8 | SCREW M3.0*6.0-I(NI) | | 4 |
| 125 | M-SCW-0824-6803 | MM40060BBJ5 | SCREW M4.0*6.0-B(NI) | | 6 |
| 126 | M-LCD-0826-0195 | AA17EL07063 | LCD(TFT) 17" QD17EL07 REV:03 | | 1 |
| 127 | M-MS-0808-8984 | FCL70004010 | LCD MYLAR L70L-E(FCL70004,REV3A) | | 1 |
| 128 | M-MS-0808-9599 | FCL7V013012 | AL FOIL L7VX (FCL7V013,REV3A) | | 4 |
| 129 | M-MS-0808-9600 | FCL7V014019 | FILM BEZEL L7VX (FCL7V014,REV3A) | | 1 |
| 130 | M-LB-0813-0894 | HCL7V005010 | WARNING LABEL, INVERTOR(HCL7V005,3A) | | 1 |
| 131 | M-MS-0808-9601 | FBL7V030013 | SCALAR TOP SHIELD L7VX(FBL7V030,R3A) | | 1 |
| 132 | M-MS-0808-9602 | FBL7V031010 | SCALAR BOTTOM SHIELD L7VX(FBL7V031,R3A) | | 1 |
| 133 | M-MS-0808-9246 | GBLM7003017 | GASKET-3 LM7S(GBLM7003,REV3A) | | 5 |
| 134 | M-MS-0808-8986 | MBLI1004018 | IO NUT LI1(MBLI1004,REV3A) | | 4 |
| 135 | M-SCW-0824-6760 | MS30060IM18 | SCREW F3*6-I(NI) | | 2 |
| 136 | #N/A | 25L7VLCVS01 | L7VX LCD COVER ASSY | | 1 |
| 137 | #N/A | 33L7VLSVB03 | L7VX LCD COVER SUB ASSY | | 1 |

| Item | ViewSonic P/N | Ref. P/N | Description | Location | Q'ty |
|---|---|---|---|---|---|
| 138 | C-BC-0302-0605 | EAL7V005018 | BACK COVER L7VX(EAL7V005,REV3A) | | 1 |
| 139 | M-CV-0830-2484 | FBL7V007011 | KENSINGTON CAP(FBL7V007,REV3A) | | 1 |
| 140 | M-BK-0805-0089 | FBL7V011019 | VESA BKT L7VX(FBL7V011,REV3A) | | 4 |
| 141 | M-SCW-0824-0725 | MF30050IBJ6 | SCREW F3*5-I(NI) | | 1 |
| 142 | M-MS-0808-7709 | GAL7V004011 | RUBBER PAD REAR(GAL7V004,REV3A) | | 4 |
| 143 | M-SCW-0824-6797 | MF40080BJ29 | SCREW F4.0*8-B(BNI) | | 4 |
| 144 | M-SCW-0824-6840 | MM40080IBJ9 | SCREW M4.0*8.0-I(NI) | | 2 |
| 145 | #N/A | 26L7VSAVS09 | L7VX STAND ASSY | | 1 |
| 146 | #N/A | 34L7VSSVS05 | L7VX STAND SUB ASSY | | 1 |
| 147 | M-SCW-0824-6843 | MM40200IBJ0 | SCREW M4.0*20-I(NI) | | 4 |
| 148 | #N/A | 27L7VCSVS05 | L7VX CHASSIS ASSY | | 1 |
| 149 | M-MS-0808-9604 | DDL7VXLC004 | CABLE ASSY L7VX MB-LCD(30P,REV1A) | | 1 |
| 150 | M-MS-0808-7690 | DD0LM7IV008 | CABLE ASSY LM7S INVERTER(6P,REV1A) | | 1 |
| 151 | M-MS-0808-9605 | DDL7VXTH101 | CABLE ASSY L7VX MB-BUTTON2(4P,REV1A) | | 1 |
| 152 | M-MS-0808-9606 | FBL7V013011 | FUNCTION PCB BKT L7VX(FBL7V013,REV3A) | | 2 |
| 153 | M-SCW-0824-0725 | MF30050IBJ6 | SCREW F3*5-I(NI) | | 2 |
| 154 | #N/A | 28L7VPKVS07 | L7VX PACKING ASSY | | 1 |
| 155 | A-AD-0114-0205 | AG12042CK00 | ADP 12V 4.2A ADP-50GH BB 100~240V 1A1A | | 1 |
| 156 | #N/A | DD0L7VPC201 | CABLE ASSY L7V1.8M PC-MONITOR (REV3A) | | 1 |
| 157 | A-VC-0101-0294 | DD0L7VPC103 | CABLE ASSY L7V MB-VGA(15/15P,REV1A) | | 1 |
| 158 | A-PC-0106-0224 | DM333181G97 | POWER CORD 3P 1.8M(USA)V04VS35001218000 | | 1 |
| 159 | #N/A | EAL7V015013 | I/O COVER (C) L7VX(EAL7V015,R3A) | | 1 |
| 160 | M-MS-0808-9158 | HAL7V002019 | EPE BAG L7VX(HAL7V002,REV3A) | | 1 |
| 161 | P-FM-0602-0845 | HBL7V003016 | END CAP(L) L7VX(HBL7V003,REV3A) | | 1 |
| 162 | P-FM-0602-0846 | HBL7V004012 | END CAP(R) L7VX(HBL7V004,REV3A) | | 1 |
| 163 | M-LB-0813-0747 | HCL7V004013 | CORE LABEL(HCL7V004,REV3A) | | 1 |
| 164 | M-LB-0813-0745 | HCL7V002011 | SERIAL LEBAL(HCL7V002,REV3A) | | 1 |
| 165 | M-LB-0813-0920 | HCL7V007012 | ID LABEL L7VX(HCL7V007,REV3A) | | 1 |
| 166 | #N/A | HCL7V019011 | CARTON LABEL L7VC(HCL7V019,REV3B) | | 1 |
| 167 | P-BX-0601-0936 | HFL7V003010 | CARTON L7VX(HFL7V003,REV3A) | | 1 |
| 168 | A-CD-VX750 | HGL7V002014 | USER MANUAL &CD RAM L7VX | | 1 |
| 169 | #N/A | HFL7V007015 | COVER CARTON L7VX (HFL7V007,REV3B) | | 0.063 |
| 170 | #N/A | JXLM5003011 | HANDLE LM5S(JXLM5003,REV 3B) | | 1 |

## 8. Exploded Diagram And Spare Parts List

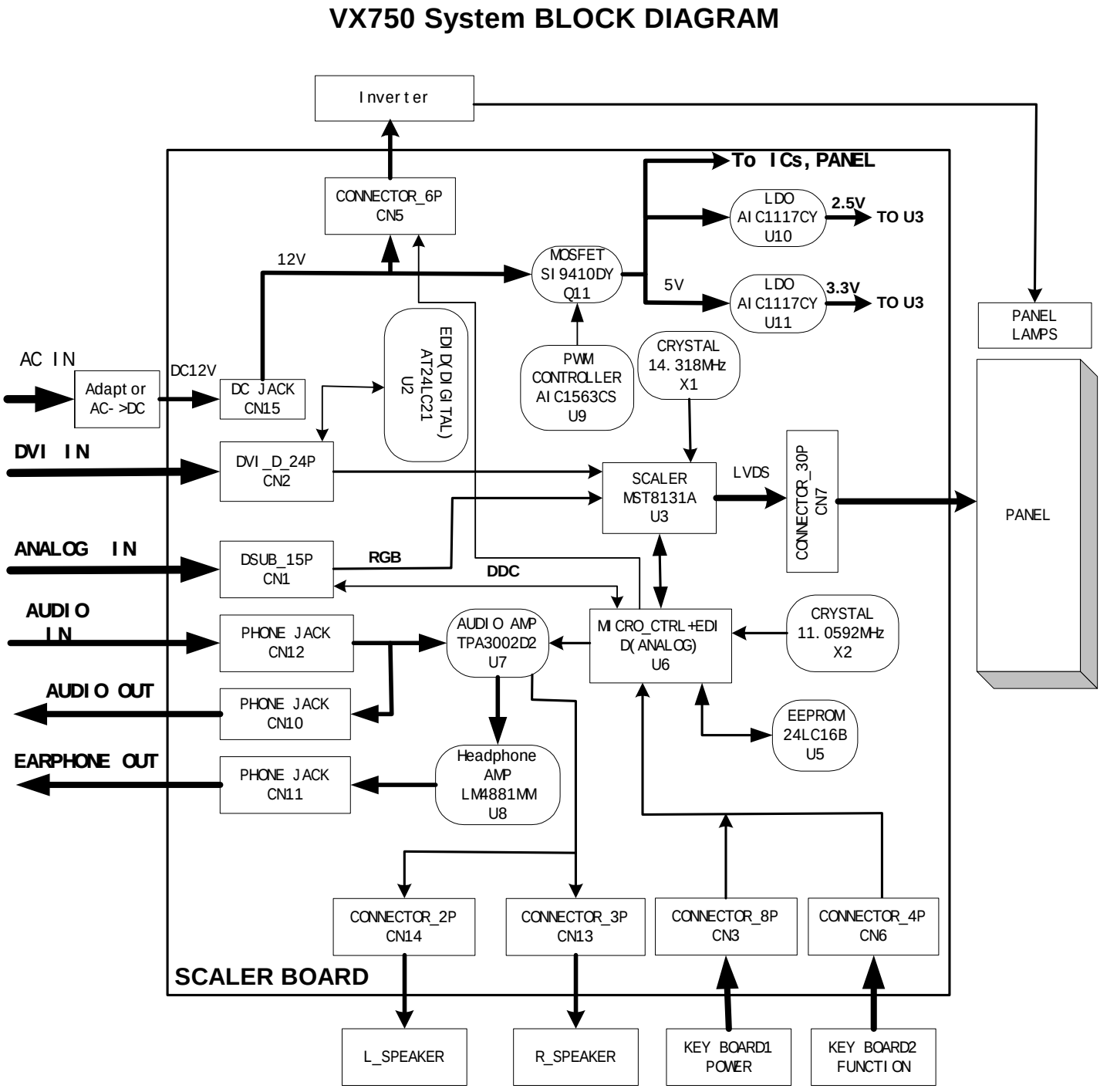


# VX750-1 Exploded Part List

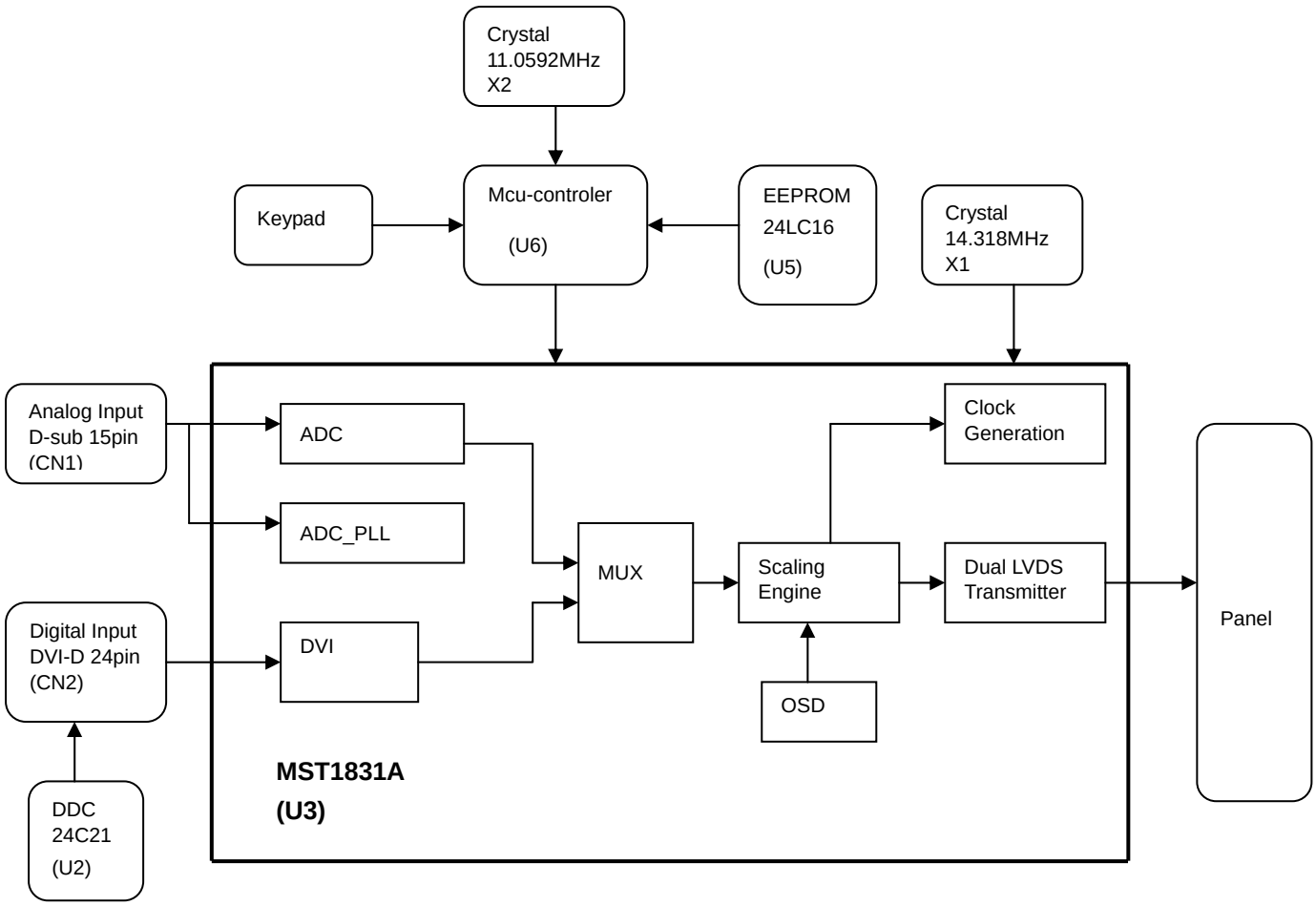
| Item | View Sonic P/No | Part Number | Part Description | Qty |
|---|---|---|---|---|
| 1 | B-MB-0201-2728 | 21L7VSB0030 | L7VX SCALAR/B ASSY(MST) | 1 |
| 2 | B-SB-0221-0596 | AS022172511 | INV MODULE(TDK)L7VX(12V,V=720V,I=7MA,A1A | 1 |
| 3 | B-CB-0206-0171 | 23L7VBB0000 | L7VX BUTTON/B ASSY (FUNCTION KEY) | 1 |
| 4 | B-CB-0206-0172 | 23L7VBB0018 | L7VX BUTTON/B ASSY (POWER KEY) | 1 |
| 5 | C-FP-0301-9937 | EAL7V004011 | LCD BEZEL L7VX(EAL7V004,REV3A) | 1 |
| 6 | PL-BT-0706-0170 | EBL7V008018 | FUNCTION BUTTON L7VX(EBL7V008,REV3A) | 2 |
| 7 | M-CV-0830-2554 | EBL7V012015 | POWER COVER L7VX(EBL7V012,REV3A) | 1 |
| 8 | M-MS-0808-9594 | EBL7V013011 | LENS LED L7VX(EBL7V013,REV3A) | 1 |
| 9 | M-MS-0808-9595 | EBL7V014018 | POWER KEY L7VX(EBL7V014,REV3A) | 1 |
| 10 | M-CV-0830-2558 | FAL7V008017 | SPEAKER COVER L7VX(FAL7V008,REV3A) | 2 |
| 11 | M-LB-0813-0744 | HCL7V001014 | LOGO LABEL(HCL7V001,REV3A) | 1 |
| 12 | PL-BT-0706-0171 | EBL7V009014 | ENTER BUTTON L7VX(EBL7V009,REV3A) | 1 |
| 13 | PL-BT-0706-0172 | EBL7V011019 | BASE ENTER L7VX(EBL7V011,REV3A) | 1 |
| 14 | PL-BT-0706-0173 | EBL7V010012 | CURSOR BUTTON L7VX(EBL7V010,REV3A) | 1 |
| 15 | M-MS-0808-9596 | DN0QT120009 | SPEAKER ASSY L7VX FG-QT120B 5W*1 | 1 |
| 16 | M-MS-0808-9597 | DN0QT120106 | SPEAKER ASSY L7VX FG-QT120A 5W*1 | 1 |
| 17 | M-BK-0805-0085 | FAL7V002019 | LCD BKT(L) L7VX(FAL7V002,REV3A) | 1 |
| 18 | M-BK-0805-0086 | FAL7V003015 | LCD BKT(R) L7VX(FAL7V003,REV3A) | 1 |
| 19 | M-BK-0805-0087 | FAL7V004011 | SCALAR BKT UPPER L7VX(FAL7V004,REV3A) | 1 |
| 20 | M-BK-0805-0088 | FAL7V005018 | SCALAR BKT DOWN L7VX(FAL7V005,REV3A) | 1 |
| 21 | M-MS-0808-9598 | FBL7V012015 | INV SHIELDING L7VX(FBL7V012,REV3A) | 1 |
| 22 | M-SCW-0824-0725 | MF30050IBJ6 | SCREW F3*5-I(NI) | 11 |
| 23 | M-SCW-0824-0728 | MM30050IBJ3 | SCREW M3.0*5.0-I(NI) | 14 |
| 24 | M-SCW-0824-6800 | MM30060IBJ8 | SCREW M3.0*6.0-I(NI) | 4 |
| 25 | M-SCW-0824-6803 | MM40060BBJ5 | SCREW M4.0*6.0-B(NI) | 6 |
| 26 | M-LCD-0826-0195 | AA17EL07063 | LCD(TFT) 17" QD17EL07 REV:03 | 1 |
| 27 | M-MS-0808-8984 | FCL70004010 | LCD MYLAR L70L-E(FCL70004,REV3A) | 1 |
| 28 | M-MS-0808-9599 | FCL7V013012 | AL FOIL L7VX (FCL7V013,REV3A) | 4 |
| 29 | M-MS-0808-9600 | FCL7V014019 | FILM BEZEL L7VX (FCL7V014,REV3A) | 1 |
| 30 | M-LB-0813-0894 | HCL7V005010 | WARNING LABEL, INVERTOR(HCL7V005,3A) | 1 |
| 31 | M-SCW-0824-6760 | MS30060IM18 | SCREW F3*6-I(NI) | 2 |
| 32 | M-MS-0808-9601 | FBL7V030013 | SCALAR TOP SHIELD L7VX(FBL7V030,R3A) | 1 |
| 33 | M-MS-0808-9602 | FBL7V031010 | SCALAR BOTTOM SHIELD L7VX(FBL7V031,R3A) | 1 |
| 34 | M-MS-0808-9246 | GBLM7003017 | GASKET-3 LM7S(GBLM7003,REV3A) | 4 |
| 35 | M-MS-0808-8986 | MBLI1004018 | IO NUT LI1 (MBLI1004,REV3A) | 4 |
| 36 | C-BC-0302-0605 | EAL7V005018 | BACK COVER L7VX(EAL7V005,REV3A) | 1 |
| 37 | M-CV-0830-2484 | FBL7V007011 | KENSINGTON CAP(FBL7V007,REV3A) | 1 |
| 38 | M-BK-0805-0089 | FBL7V011019 | VESA BKT L7VX(FBL7V011,REV3A) | 4 |
| 39 | M-SCW-0824-6797 | MF40080BJ29 | SCREW F4.0*8-B(BNI) | 4 |
| 40 | M-SCW-0824-6840 | MM40080IBJ9 | SCREW M4.0*8.0-I(NI) | 2 |
| 41 | M-MS-0808-9607 | EAL7V007011 | HANDER MOUNT L7VX(EAL7V007,REV3A) | 1 |
| 42 | M-MS-0808-9603 | EAL7V016010 | STAND BASE L7VX(EAL7V016,R3A) | 1 |
| 43 | M-MS-0808-9608 | FAL7V009013 | STAND NECK BKT (C) L7VX(FAL7V009,R3A) | 1 |
| 44 | M-MS-0808-9609 | FAL7V010011 | STAND BOTTOM PLATE(C) L7VX(FAL7V010,R3A) | 1 |
| 45 | M-CV-0830-2559 | FBL7V033012 | HINGE-L (C) L7VX(FBL7V033,R3A) | 1 |
| 46 | M-CV-0830-2560 | FBL7V032016 | HINGE-R (C) L7VX(FBL7V032,R3A) | 1 |
| 47 | M-SCW-0824-0727 | MF30080IBJ0 | SCREW F3.0*8-I(NI) | 12 |
| 48 | M-SCW-0824-6841 | MM40060ICI1 | SCREW M4.0* 6-I(NI,NYLOK) | 6 |
| 49 | M-SCW-0824-6842 | MM30060BCI4 | SCREW M3.0*6,B,NI,NYLOK | 2 |
| 50 | PL-PD-0714-0118 | GAL70001019 | RUBBER FOOT L70B(GAL70001,REV3A) | 4 |
| 51 | PL-PD-0714-0118 | GAL70001019 | RUBBER FOOT L70B(GAL70001,REV3A) | 4 |
| 52 | M-SCW-0824-6843 | MM40200IBJ0 | SCREW M4.0*20-I(NI) | 4 |
| 53 | M-MS-0808-9604 | DDL7VXLC004 | CABLE ASSY L7VX MB-LCD(30P,REV1A) | 1 |
| 54 | M-MS-0808-7690 | DD0LM7IV008 | CABLE ASSY LM7S INVERTER(6P,REV1A) | 1 |
| 55 | M-MS-0808-9582 | DDL7VXTH004 | CABLE ASSY L7VX MB-BUTTON1(8P,REV1A) | 1 |
| 56 | M-MS-0808-9605 | DDL7VXTH101 | CABLE ASSY L7VX MB-BUTTON2(4P,REV1A) | 1 |
| 57 | M-MS-0808-9606 | FBL7V013011 | FUNCTION PCB BKT L7VX(FBL7V013,REV3A) | 2 |
| 58 | M-SCW-0824-0725 | MF30050IBJ6 | SCREW F3*5-I(NI) | 2 |

## 9. Block Diagram

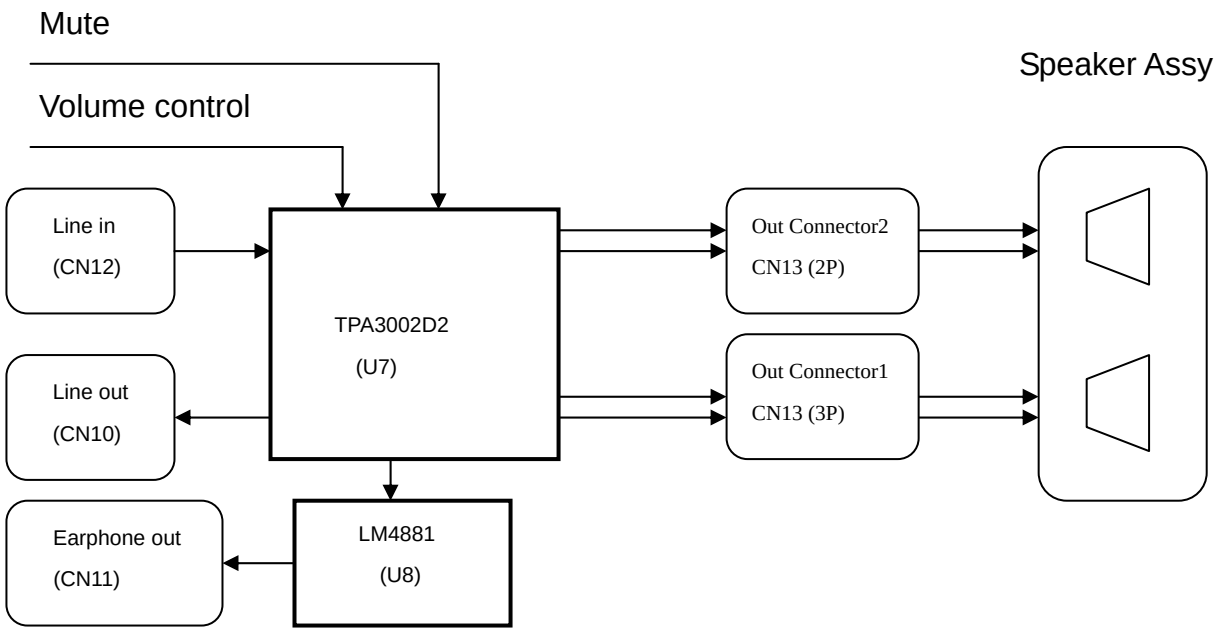
### System block diagram



## Video

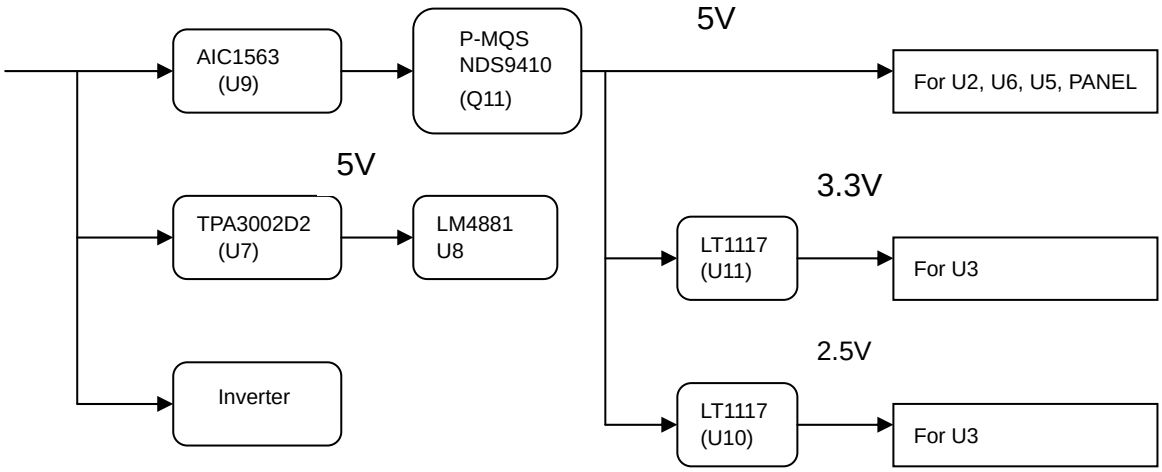

Crystal
11.0592MHz
X2
Keypad
Mcu-controler
(U6)
EEPROM
24LC16
(U5)
Crystal
14.318MHz
X1
Analog Input
D-sub 15pin
(CN1)
ADC
ADC_PLL
Clock
Generation
MUX
Scaling
Engine
Dual LVDS
Transmitter
Panel
Digital Input
DVI-D 24pin
(CN2)
DVI
OSD
MST1831A
(U3)
DDC
24C21
(U2)

## Audio


Mute
Volume control
Speaker Assy
Line in
(CN12)
TPA3002D2
(U7)
Out Connector2
CN13 (2P)
Line out
(CN10)
Out Connector1
CN13 (3P)
Earphone out
(CN11)
LM4881
(U8)

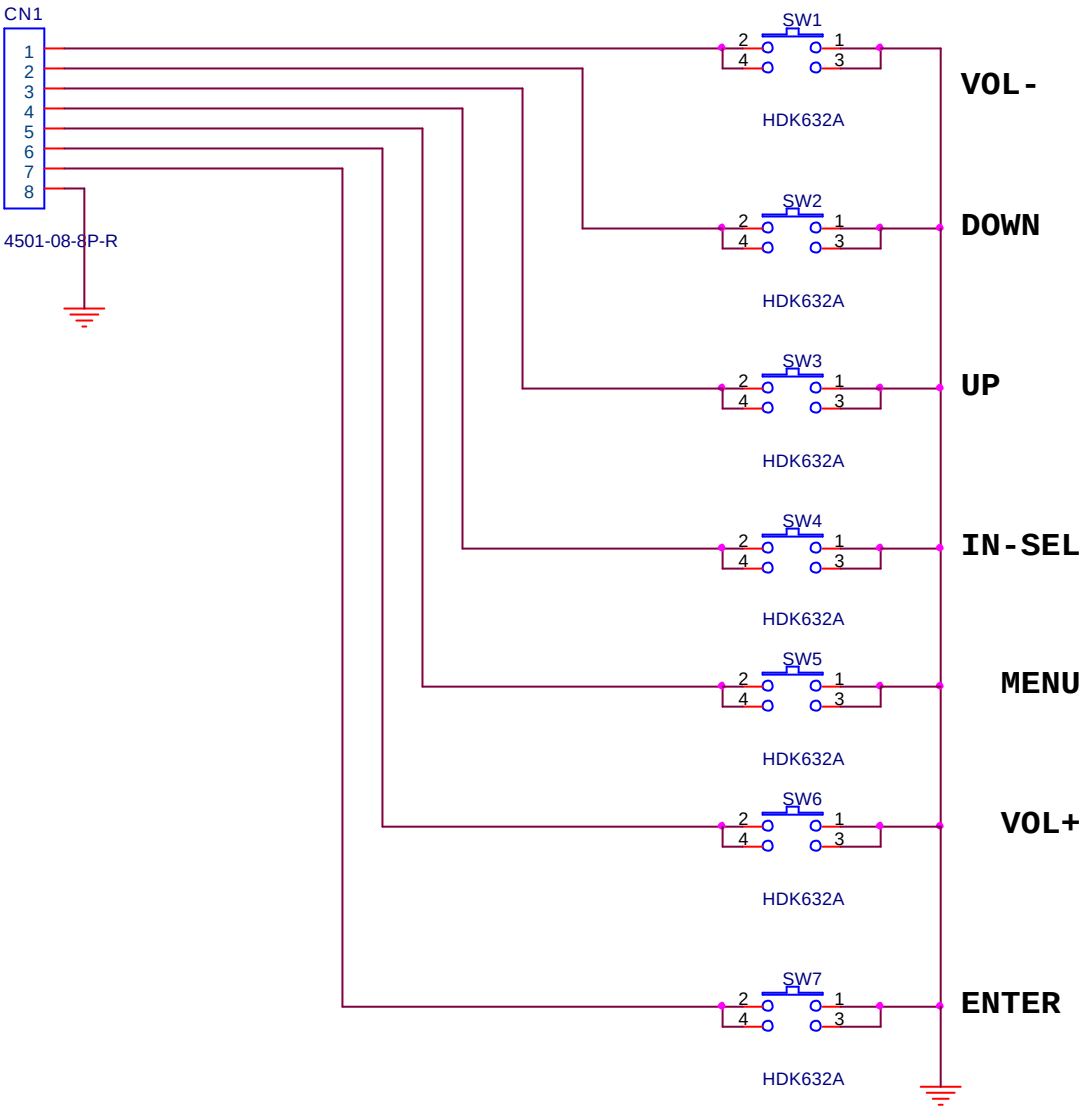
## Power

12V Input
(From Adaptor)

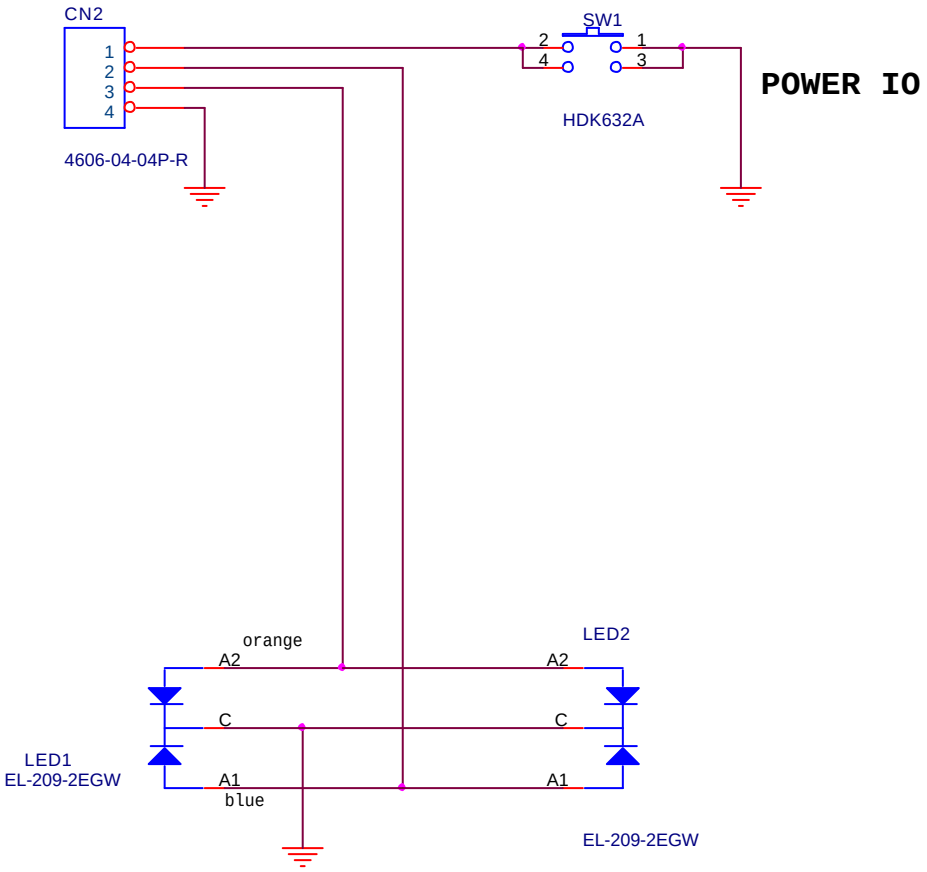


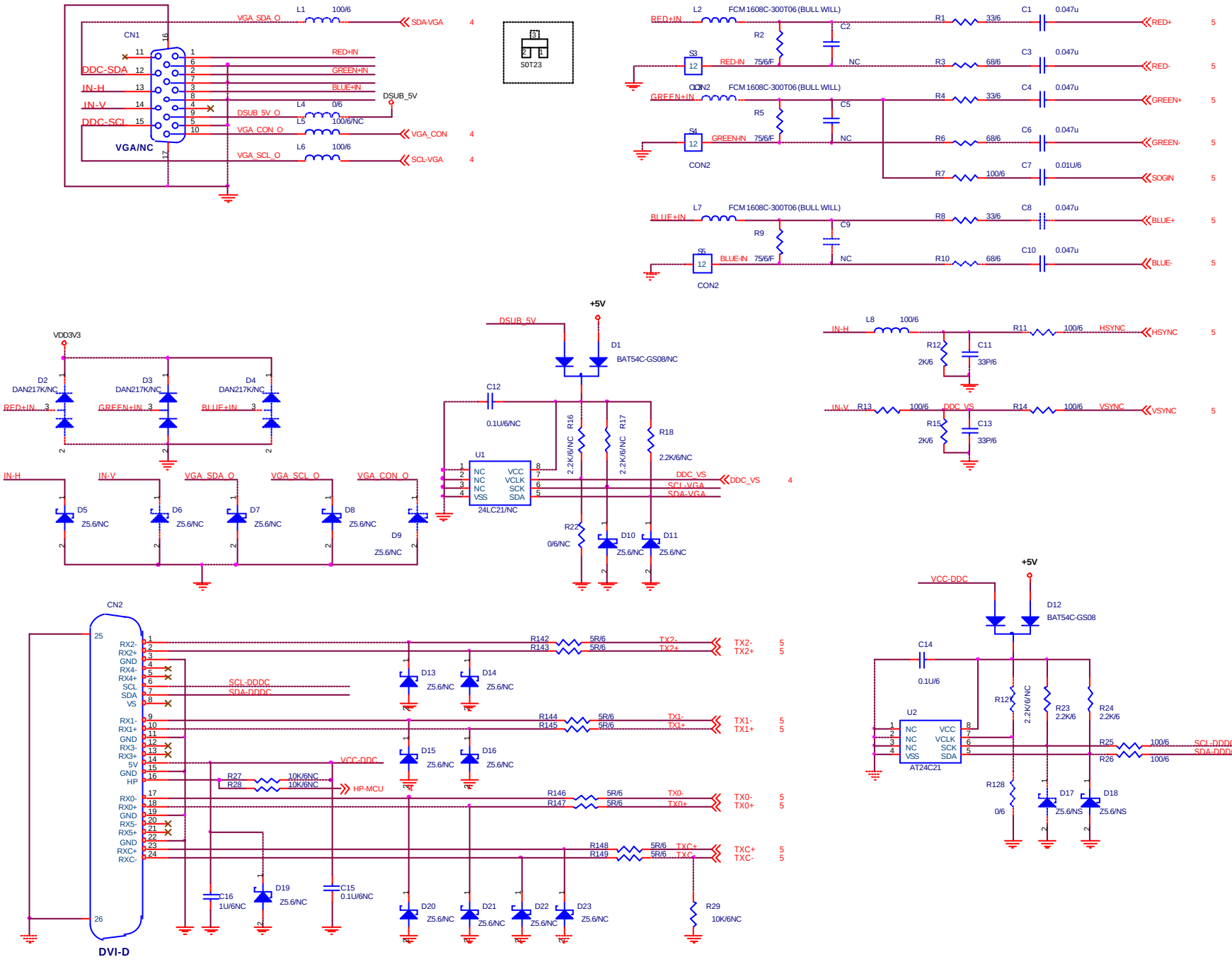
## 10. Schematic Diagrams

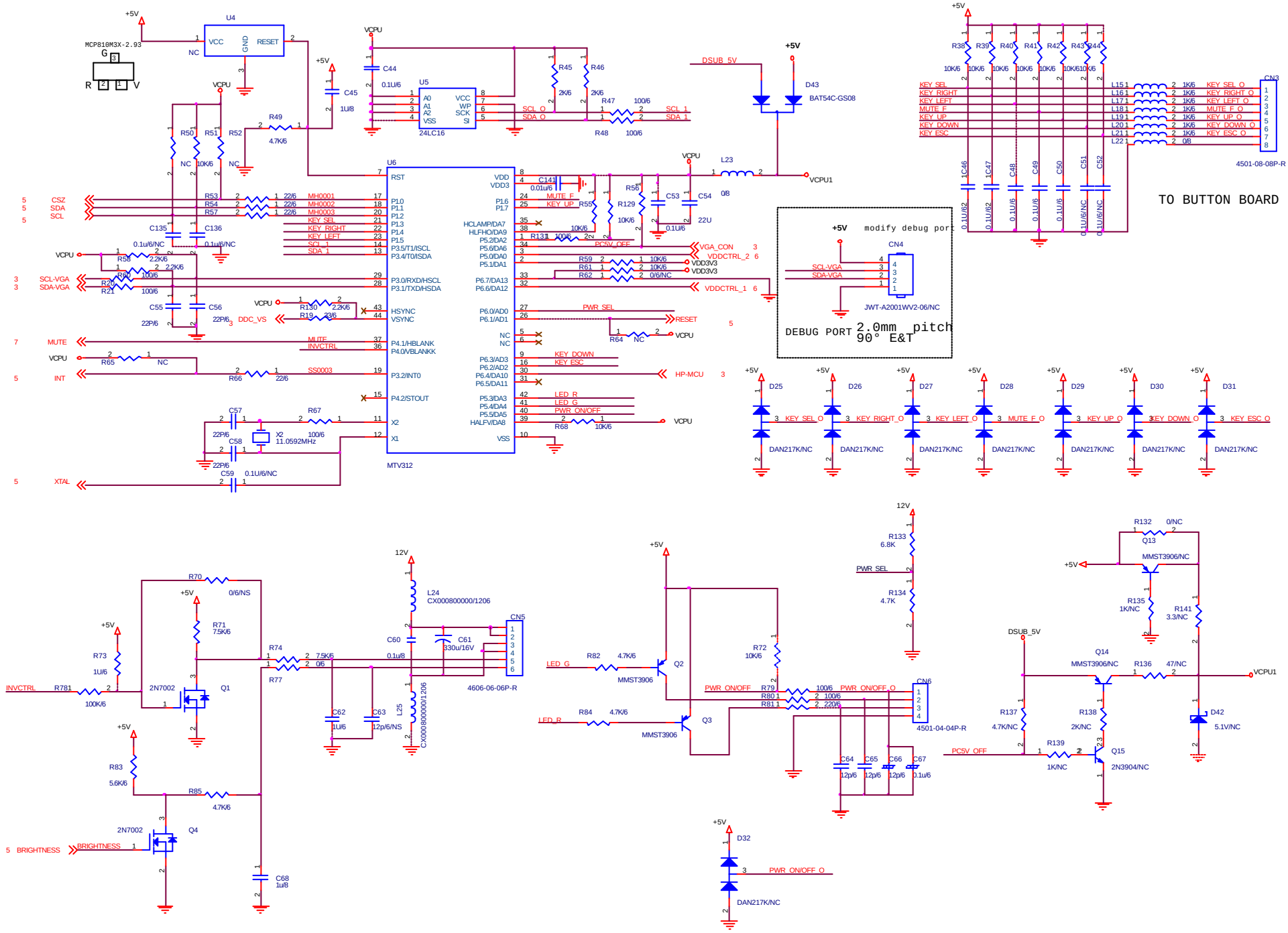
### Button Board Function

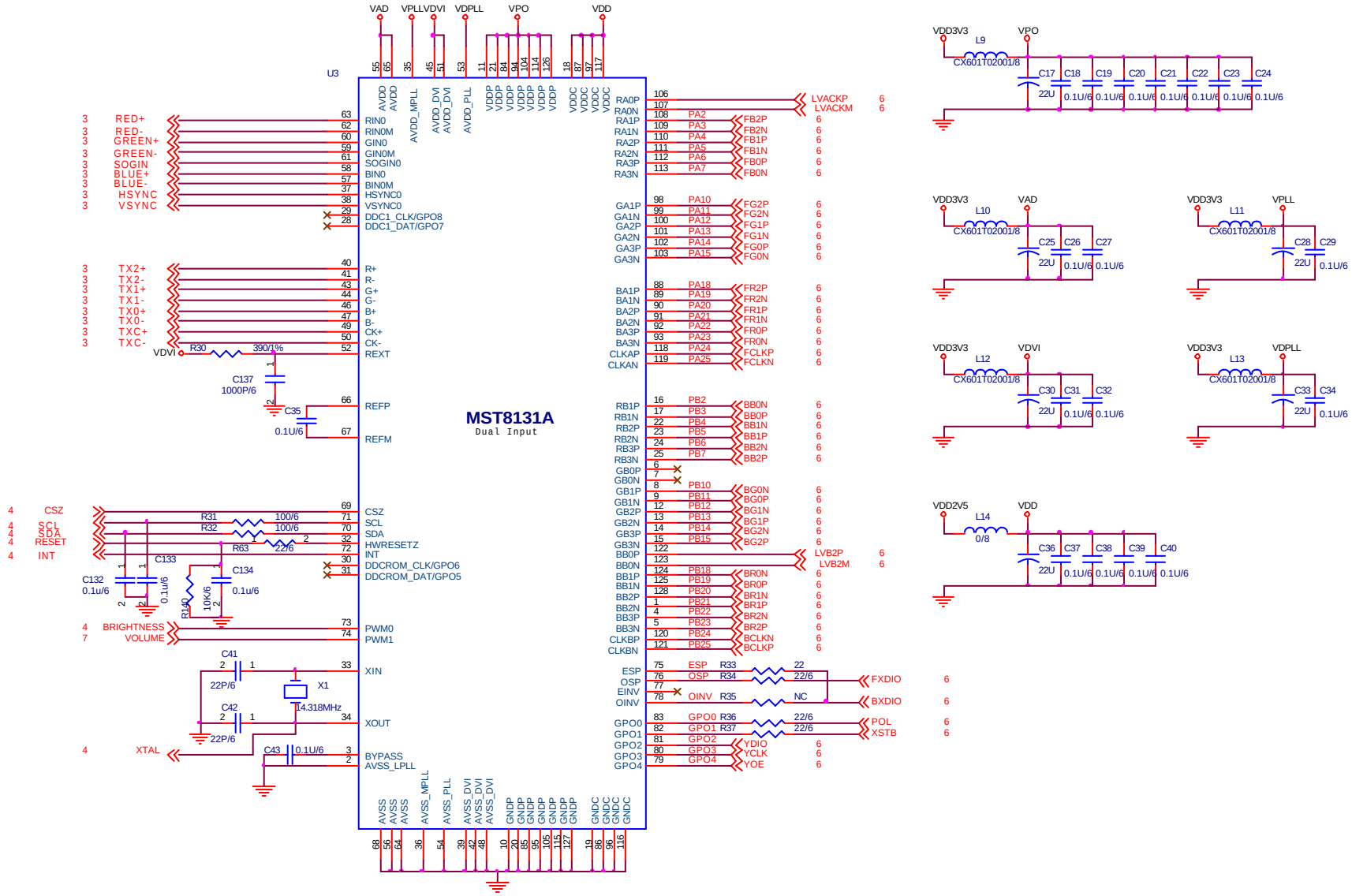


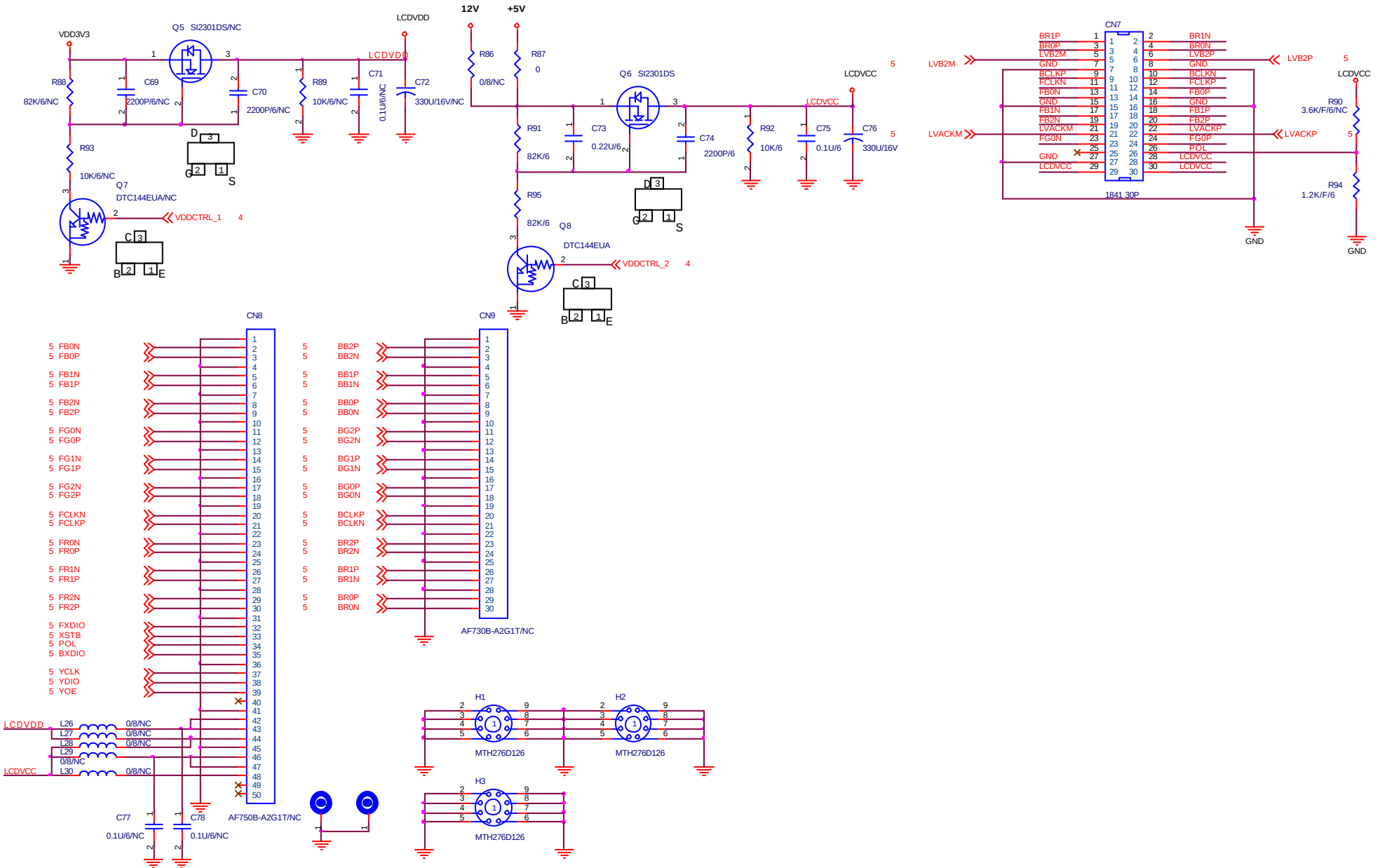
## Button Board Power

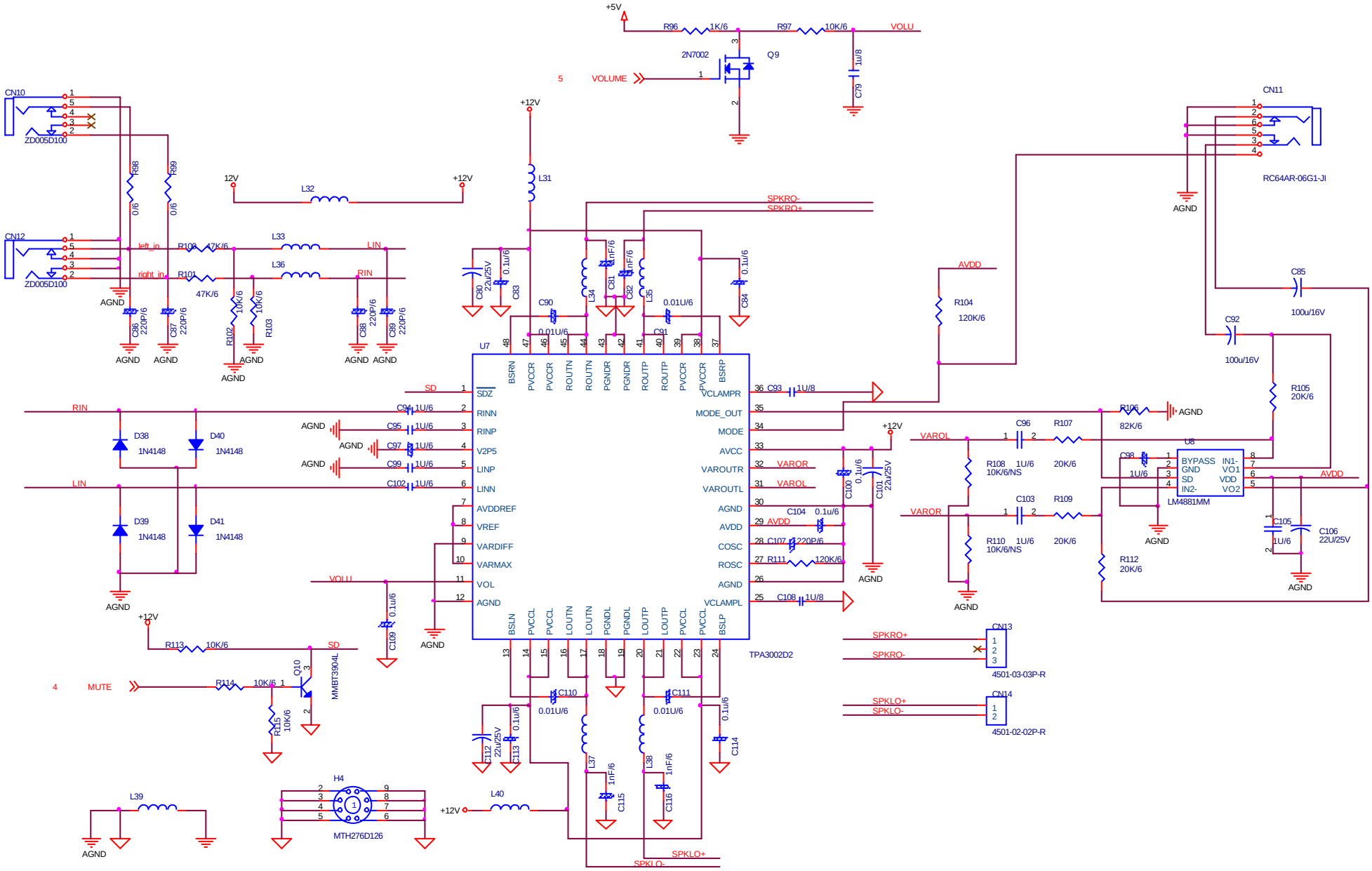


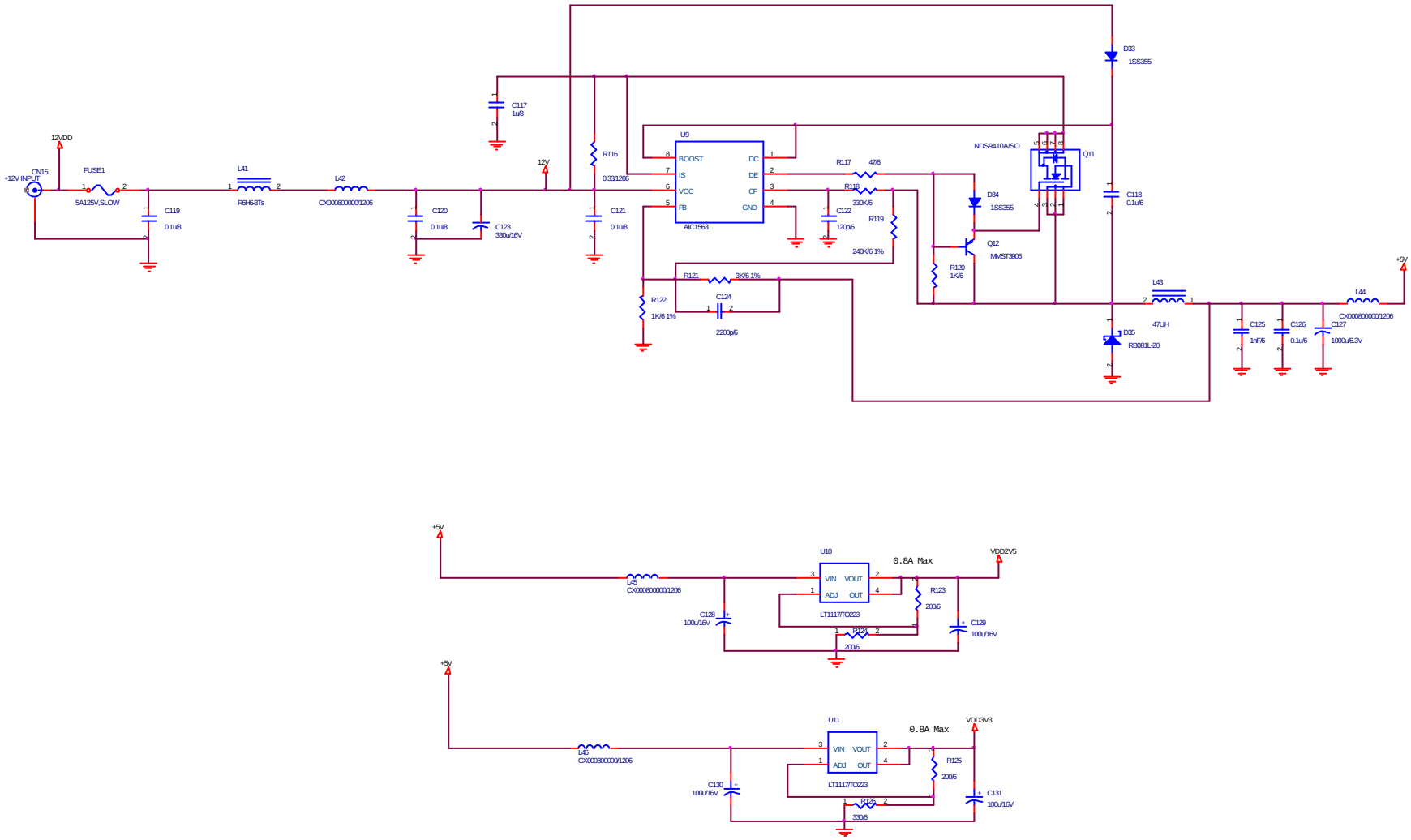

CN1
VGA/NC
DDC-SDA
IN-H
IN-V
DDC-SCL
VGA_SDA_O
VGA_CON_O
VGA_SCL_O
DSUB_5V_O
SDA-VGA
VGA_CON
SCL-VGA
DSUB_5V
L1 100/6
L4 0/6
L5 100/6/NC
L6 100/6
S0T23
RED+IN
GREEN+IN
BLUE+IN
FCM 1608C-300T06 (BULL WILL)
R1 33/6
R2
C1 0.047u
C2
R3 68/6
C3 0.047u
R4 33/6
C4 0.047u
R5
C5
R6 68/6
C6 0.047u
R7 100/6
C7 0.01U/6
R8 33/6
C8 0.047u
R9
C9
R10 68/6
C10 0.047u
RED-IN
GREEN-IN
BLUE-IN
75/6/F
NC
CON2
RED+
RED-
GREEN+
GREEN-
SOGIN
BLUE+
BLUE-
VDD3V3
D2 DAN217K/NC
D3 DAN217K/NC
D4 DAN217K/NC
D5 Z5.6/NC
D6 Z5.6/NC
D7 Z5.6/NC
D8 Z5.6/NC
D9 Z5.6/NC
+5V
D1 BAT54C-GS08/NC
C12 0.1U/6/NC
U1
24LC21/NC
NC
VCC
VCLK
SCK
SDA
VSS
R16 2.2K/6/NC
R17 2.2K/6/NC
R18 2.2K/6/NC
R22 0/6/NC
D10 Z5.6/NC
D11 Z5.6/NC
DDC_VS
SCL-VGA
SDA-VGA
L8 100/6
R11 100/6
HSYNC
R12 2K/6
C11 33P/6
R13 100/6
DDC_VS
R14 100/6
VSYNC
R15 2K/6
C13 33P/6
CN2
DVI-D
RX2-
RX2+
RX4-
RX4+
SCL
SDA
VS
RX1-
RX1+
RX3-
RX3+
5V
HP
RX0-
RX0+
RX5-
RX5+
RXC+
RXC-
SCL-DDDC
SDA-DDDC
VCC-DDC
HP-MCU
R27 10K/6NC
R28 10K/6NC
R142 5R/6
R143 5R/6
R144 5R/6
R145 5R/6
R146 5R/6
R147 5R/6
R148 5R/6
R149 5R/6
TX2-
TX2+
TX1-
TX1+
TX0-
TX0+
TXC+
TXC-
D13 Z5.6/NC
D14 Z5.6/NC
D15 Z5.6/NC
D16 Z5.6/NC
D19 Z5.6/NC
D20 Z5.6/NC
D21 Z5.6/NC
D22 Z5.6/NC
D23 Z5.6/NC
C16 1U/6NC
C15 0.1U/6NC
R29 10K/6NC
D12 BAT54C-GS08
C14 0.1U/6
U2
AT24C21
R123 2.2K/6/NC
R23 2.2K/6
R24 2.2K/6
R25 100/6
R26 100/6
R128 0/6
D17 Z5.6/NS
D18 Z5.6/NS


TO BUTTON BOARD
DEBUG PORT 2.0mm pitch 90° E&T
modify debug port
MTV312
24LC16
MCP810M3X-2.93
JWT-A2001WV2-06/NC
4501-08-08P-R
4606-06-06P-R
4501-04-04P-R
DAN217K/NC
BAT54C-GS08
MMST3906
MMST3906/NC
2N7002
2N3904/NC
CX000800000/1206
11.0592MHz
5.1V/NC
DSUB_5V
VCPU
VCPU1
+5V
12V
CSZ
SDA
SCL
SCL-VGA
SDA-VGA
MUTE
INT
XTAL
BRIGHTNESS
HP-MCU
VGA_CON
VDDCTRL_2
VDDCTRL_1
VDD3V3
PWR_SEL
RESET
PWR_ON/OFF
PCSV_OFF
LED_G
LED_R
KEY_SEL
KEY_RIGHT
KEY_LEFT
MUTE_F
KEY_UP
KEY_DOWN
KEY_ESC
INVCTRL
DDC_VS
HSYNC
VSYNC
SCL_O
SDA_O
SCL_1
SDA_1
KEY_SEL_O
KEY_RIGHT_O
KEY_LEFT_O
MUTE_F_O
KEY_UP_O
KEY_DOWN_O
KEY_ESC_O
PWR_ON/OFF_O


MST8131A
Dual Input
U3
VAD
VPLL
VDVI
VDPLL
VPO
VDD
RED+
RED-
GREEN+
GREEN-
SOGIN
BLUE+
BLUE-
HSYNC
VSYNC
TX2+
TX2-
TX1+
TX1-
TX0+
TX0-
TXC+
TXC-
CSZ
SCL
SDA
RESET
INT
BRIGHTNESS
VOLUME
XTAL
LVACKP
LVACKM
FXDIO
BXDIO
POL
XSTB
VDD3V3
VDD2V5
L9
L10
L11
L12
L13
L14
CX601T02001/8
0/8

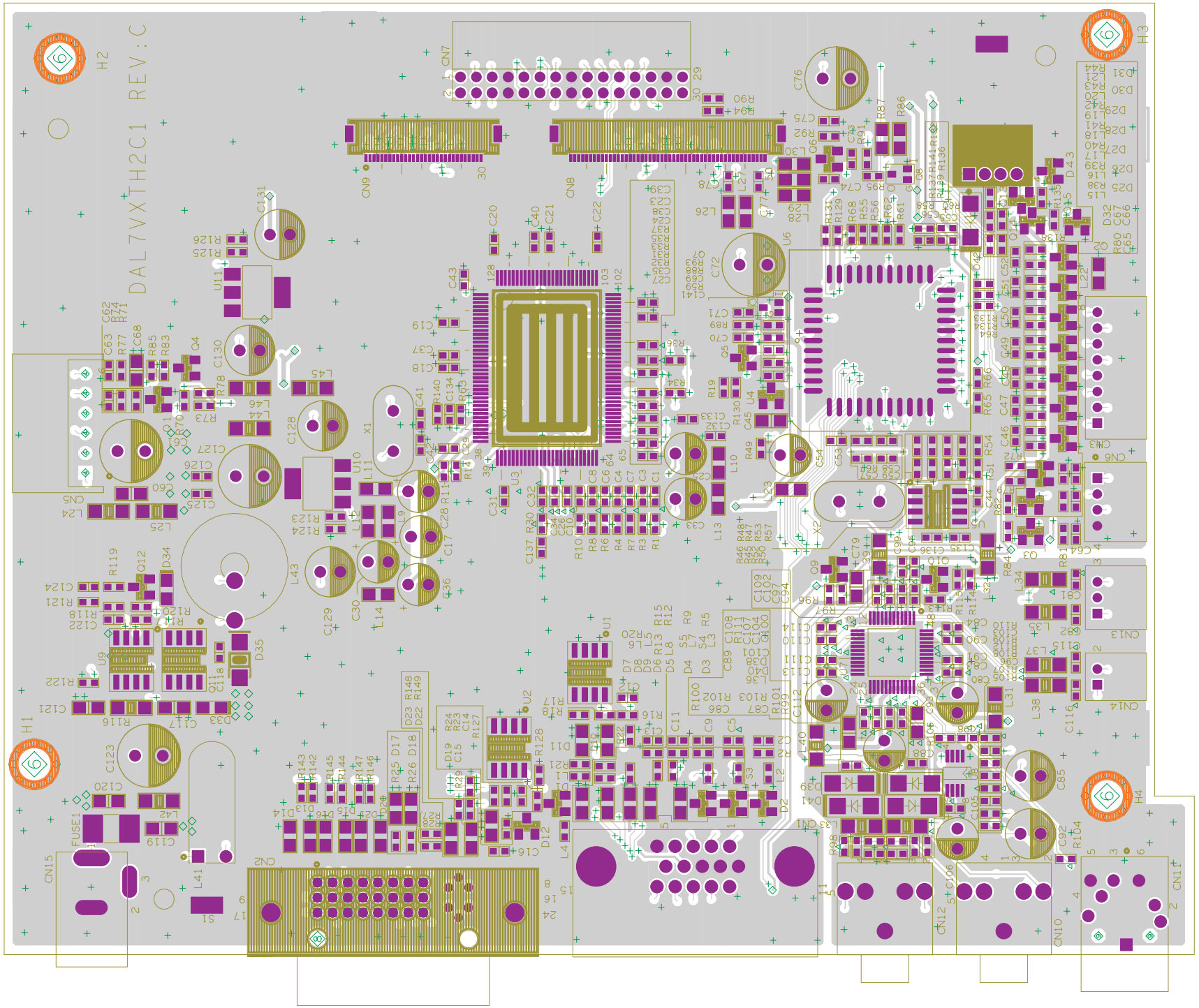

VDD3V3
Q5 SI2301DS/NC
LCDVDD
12V
+5V
R88
82K/6/NC
C69
2200P/6/NC
C70
2200P/6/NC
R89
10K/6/NC
C71
0.1U/6/NC
C72
330U/16V/NC
R86
0/8/NC
R87
0
Q6 SI2301DS
LCDVCC
R91
82K/6
C73
0.22U/6
C74
2200P/6
R92
10K/6
C75
0.1U/6
C76
330U/16V
R93
10K/6/NC
Q7
DTC144EUA/NC
VDDCTRL_1
R95
82K/6
Q8
DTC144EUA
VDDCTRL_2
CN7
LVB2M
LVACKM
LVB2P
LVACKP
R90
3.6K/F/6/NC
R94
1.2K/F/6
1841 30P
GND
CN8
CN9
AF730B-A2G1T/NC
AF750B-A2G1T/NC
FB0N
FB0P
FB1N
FB1P
FB2N
FB2P
FG0N
FG0P
FG1N
FG1P
FG2N
FG2P
FCLKN
FCLKP
FR0N
FR0P
FR1N
FR1P
FR2N
FR2P
FXDIO
XSTB
POL
BXDIO
YCLK
YDIO
YOE
BB2P
BB2N
BB1P
BB1N
BB0P
BB0N
BG2P
BG2N
BG1P
BG1N
BG0P
BG0N
BCLKP
BCLKN
BR2P
BR2N
BR1P
BR1N
BR0P
BR0N
L26
L27
L28
L29
L30
0/8/NC
C77
0.1U/6/NC
C78
0.1U/6/NC
H1
H2
H3
MTH276D126


+5V
R96 1K/6
R97 10K/6
VOLU
2N7002
Q9
VOLUME
C79 1u/8
CN10
ZD005D100
CN12
ZD005D100
R98 0/6
R99 0/6
12V
L32
+12V
L31
left_in
right_in
R100 47K/6
R101 47K/6
L33
L36
LIN
RIN
R102 10K/6
R103 10K/6
C86 220P/6
C87 220P/6
C88 220P/6
C89 220P/6
AGND
SPKRO-
SPKRO+
C80 22u/25V
C83 0.1u/6
C90 0.01U/6
C91
L34 1nF/6
C81 1nF/6
C82
L35 0.01U/6
C84 0.1u/6
U7
BSRN PVCCR PVCCR ROUTN ROUTN PGNDR PGNDR ROUTP ROUTP PVCCR PVCCR BSRP
SD
SDZ
RINN
RINP
V2P5
LINP
LINN
AVDDREF
VREF
VARDIFF
VARMAX
VOL
AGND
VCLAMPR
MODE_OUT
MODE
AVCC
VAROUTR
VAROUTL
AGND
AVDD
COSC
ROSC
AGND
VCLAMPL
C93 1U/8
C94 1U/6
C95 1U/6
C97 1U/6
C99 1U/6
C102 1U/6
VAROR
VAROL
C100 0.1u/6
C101 22u/25V
C104 0.1u/6
C107 220P/6
R111 120K/6
C108 1U/8
BSLN PVCCL PVCCL LOUTN LOUTN PGNDL PGNDL LOUTP LOUTP PVCCL PVCCL BSLP
TPA3002D2
C110 0.01U/6
C111 0.01U/6
C112 22u/25V
C113 0.1u/6
L37 1nF/6
L38 1nF/6
C114 0.1u/6
C115
C116
SPKLO+
SPKLO-
R104 120K/6
AVDD
CN11
RC64AR-06G1-JI
C85 100u/16V
C92 100u/16V
R105 20K/6
R106 82K/6
C96 R107
R108 1U/6 10K/6/NS 20K/6
C103 R109
R110 1U/6 10K/6/NS 20K/6
R112 20K/6
U8
BYPASS GND SD IN2- IN1- VO1 VDD VO2
LM4881MM
C98 1U/6
C105 1U/6
C106 22U/25V
D38 1N4148
D40 1N4148
D39 1N4148
D41 1N4148
R113 10K/6
R114 10K/6
R115 10K/6
Q10
MMBT3904L
MUTE
VOLU
C109 0.1u/6
CN13
4501-03-03P-R
CN14
4501-02-02P-R
H4
MTH276D126
L39
L40

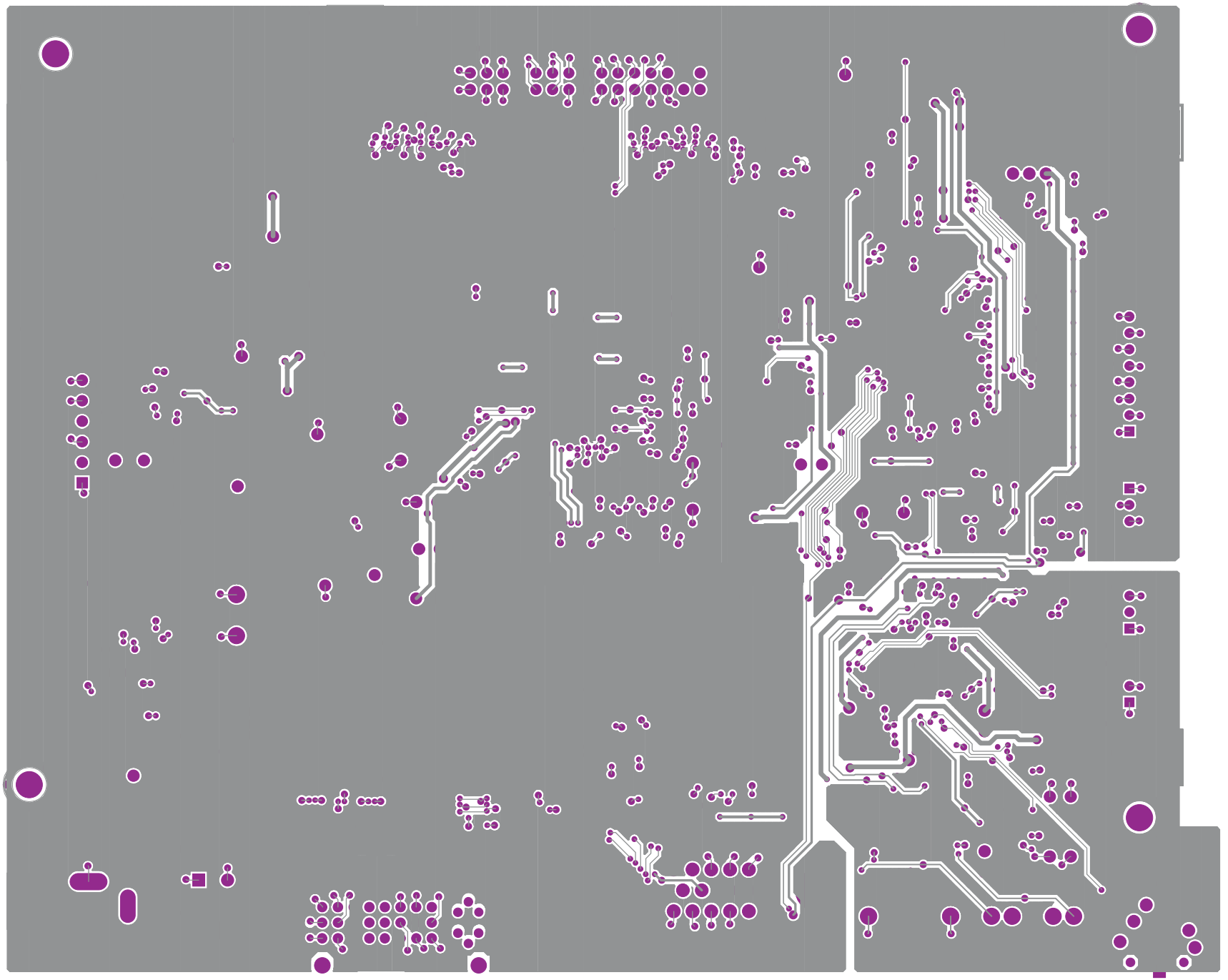

12VDD
CN15
+12V INPUT
FUSE1
5A125V,SLOW
L41
R6H6-3Ts
L42
CX0008000001206
C119
0.1u8
C120
0.1u8
C123
330u/16V
12V
C117
1u8
R116
0.33/1206
U9
BOOST
IS
VCC
FB
DC
DE
CF
GND
AIC1563
C121
0.1u8
C122
120p6
R117
47/6
R118
330K/6
R119
240K/6 1%
R120
1K/6
R121
3K/6 1%
R122
1K/6 1%
C124
2200p6
NDS9410A/SO
Q11
D34
1SS355
Q12
MMST3906
D33
1SS355
C118
0.1u6
L43
47UH
D35
RB081L-20
C125
1nF/6
C126
0.1u6
C127
1000u/6.3V
L44
CX0008000001206
+5V
+5V
U10
0.8A Max
VDD2V5
L45
CX0008000001206
VIN
VOUT
ADJ
OUT
LT1117/TO223
C128
100u/16V
R123
200/6
R124
200/6
C129
100u/16V
+5V
U11
0.8A Max
VDD3V3
L46
CX0008000001206
C130
100u/16V
R125
200/6
R126
330/6
C131
100u/16V

# 11. PCB Layout Diagrams

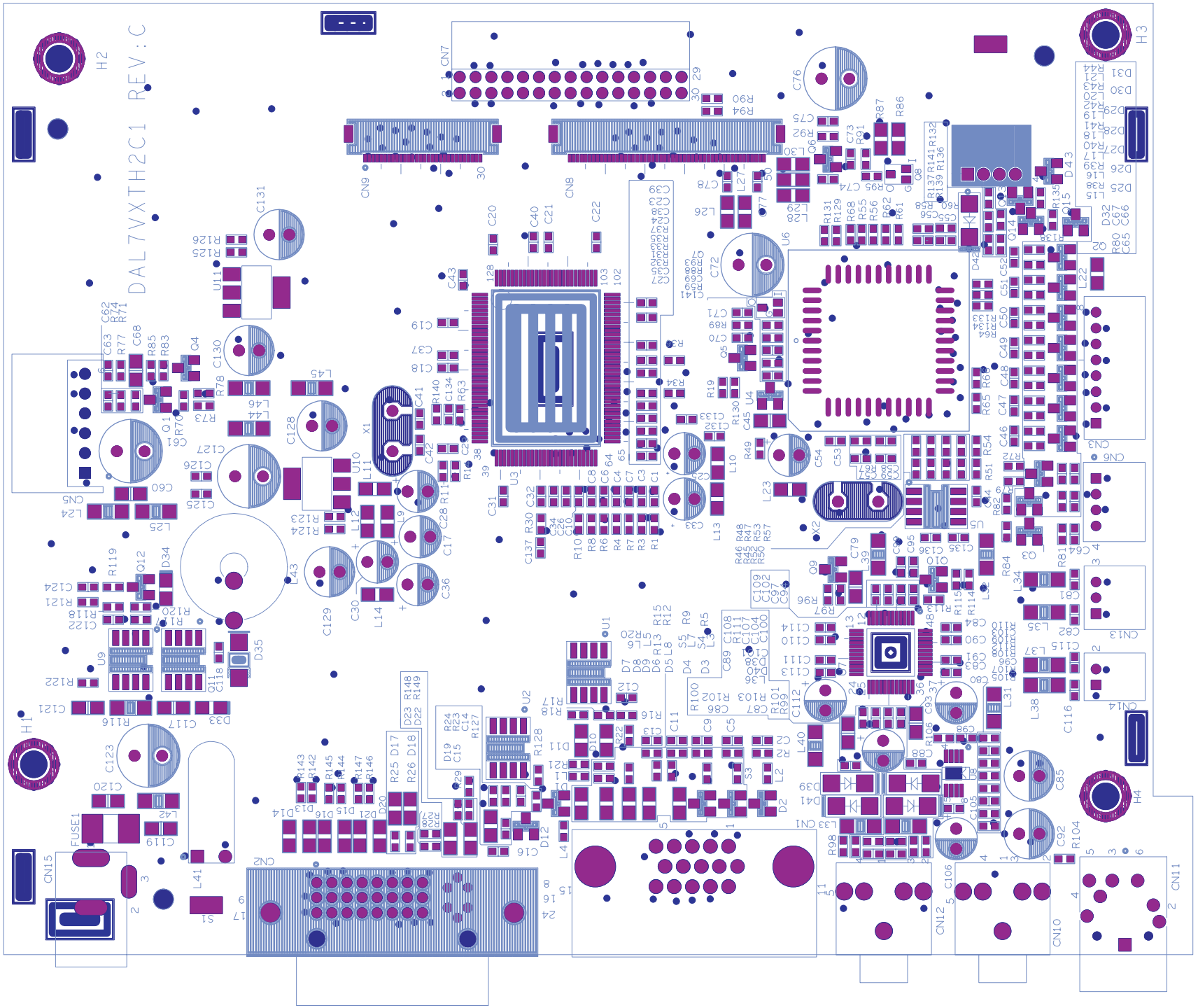
## Main Board



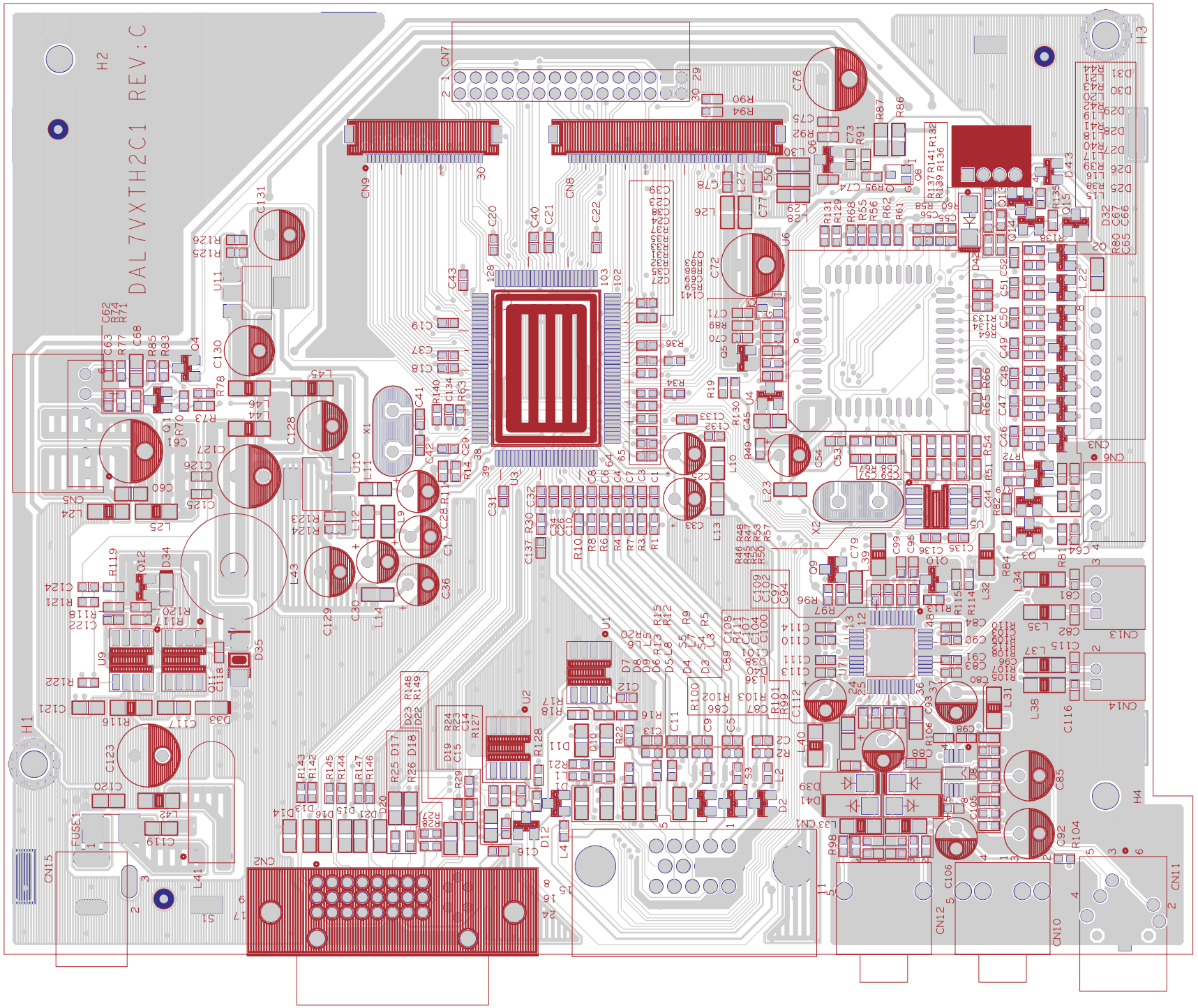
## Main Board



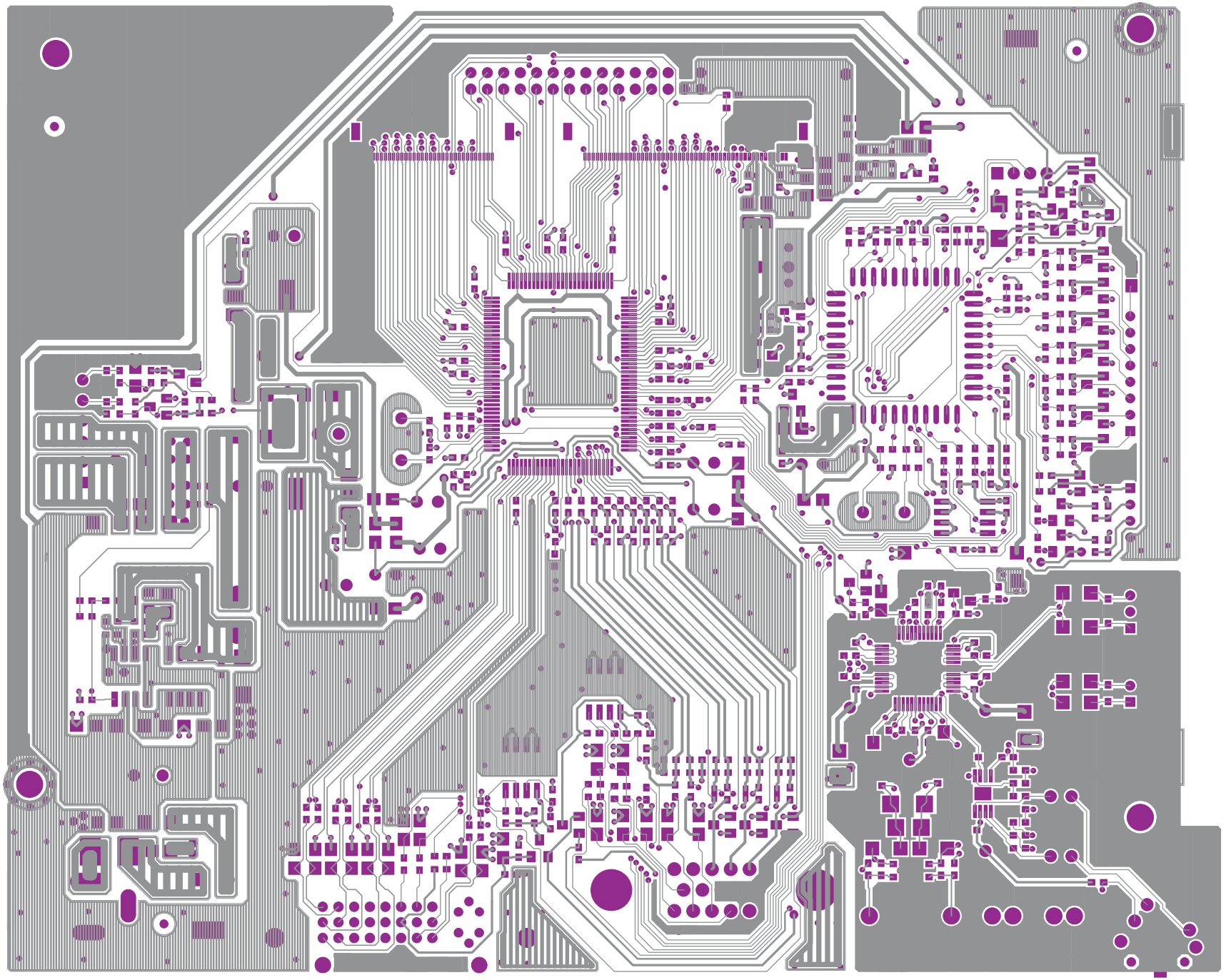
## Main Board



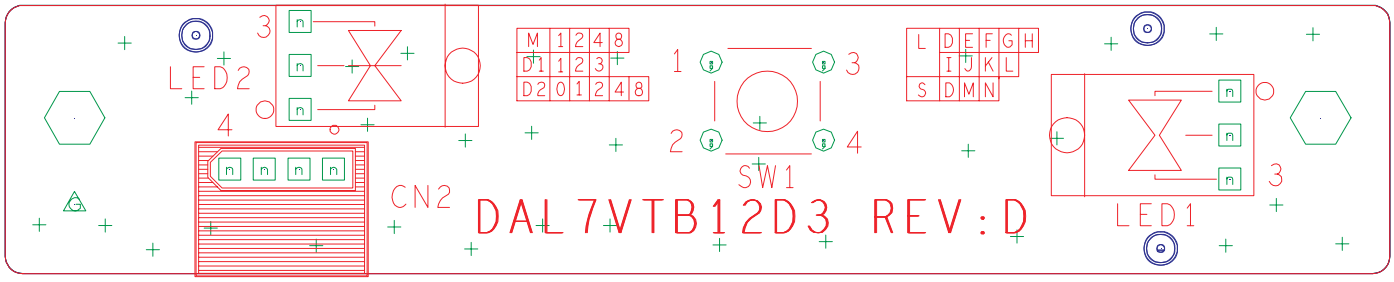
## Main Board

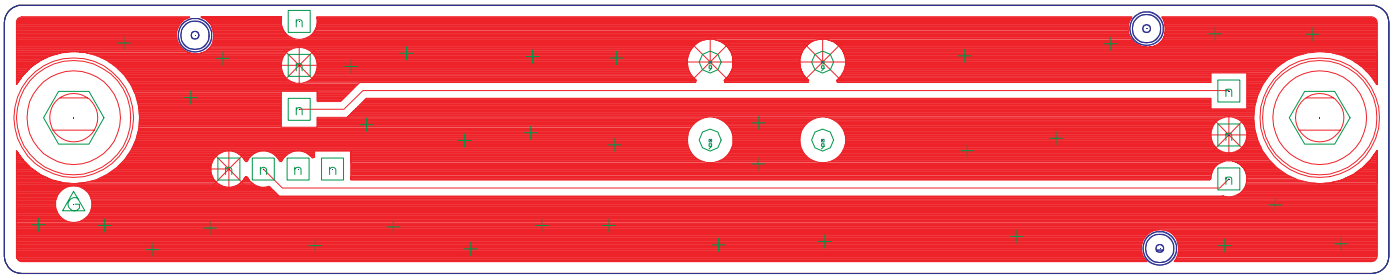


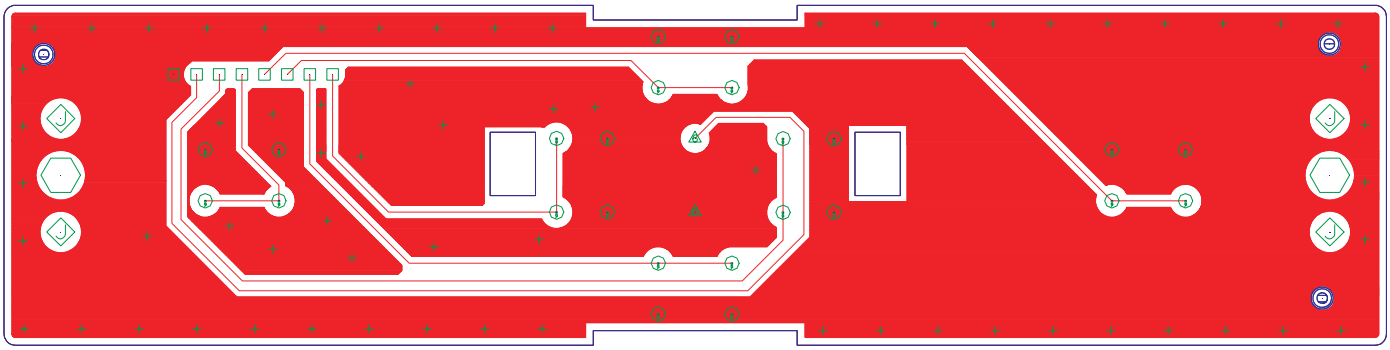
## Main Board

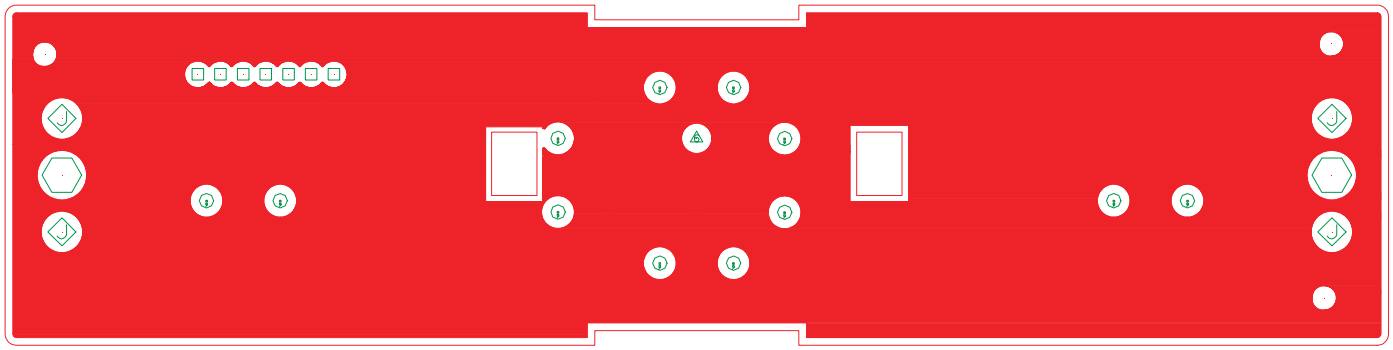


**Control Board**







# *Reader's Response*

Dear Readers:

**Thank you in advance for your feedback on our Service Manual,which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.**

## *Assessment*

A.What do you think about the content after reading **VX750** Service Manual?

| *Unit* | *Excellent* | *Good* | *Fair* | *Bad* |
|---|---|---|---|---|
| **1. Precautions And Safety Notices** | | | | |
| **2. Specification** | | | | |
| **3. Front Panel Function Control Description** | | | | |
| **4. Circuit Description** | | | | |
| **5. Adjusting Procedure** | | | | |
| **6. Trouble Shooting Flow Chart** | | | | |
| **7. Recommended Spare Parts List** | | | | |
| **8. Exploded Diagram and Spare Parts List** | | | | |
| **9. Block Diagram** | | | | |
| **10. Schematic Diagrams** | | | | |
| **11. PCB Layout Diagrams** | | | | |

B.Are you satisfied with the **VX750** service manual?

| *Item* | *Excellent* | *Good* | *Fair* | *Bad* |
|---|---|---|---|---|
| 1. Service Manual Content | | | | |
| 2. Service Manual Layout | | | | |
| 3. The form and listing | | | | |

C.Do you have any other opinion or suggestion about this service manual?

---

## *Reader's basic data:*

| | | | |
|---|---|---|---|
| Name: | | Title: | |
| Company: | | | |
| Add.: | | | |
| Tel: | | Fax: | |
| E-mail: | | | |

**After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943. You may also e-mail any suggestions to the Director, Quality Systems & Processes (marc.maupin@viewsonic.com)**